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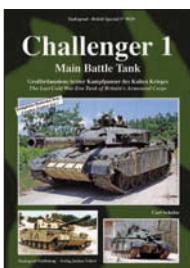
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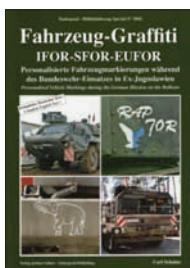
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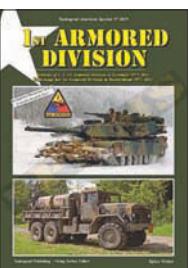
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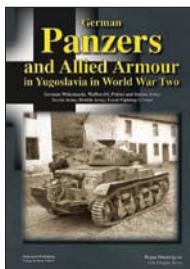
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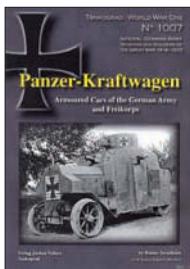
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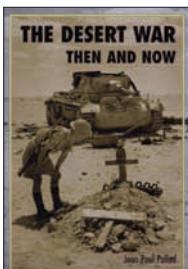
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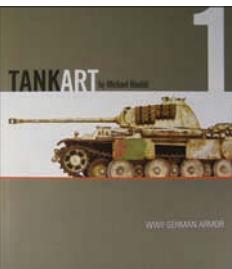
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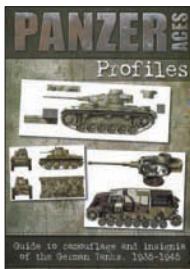
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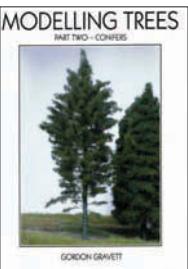
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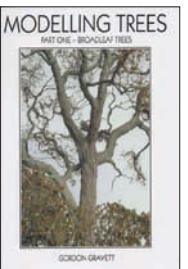
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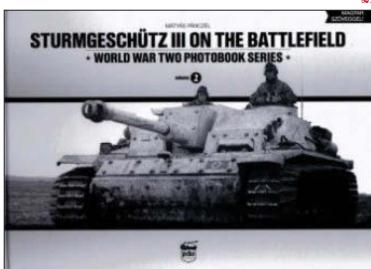
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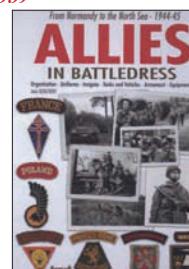
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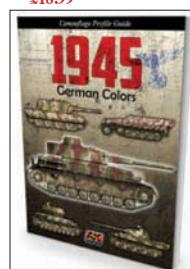
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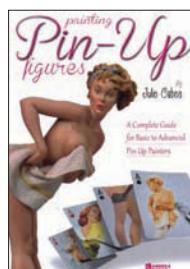
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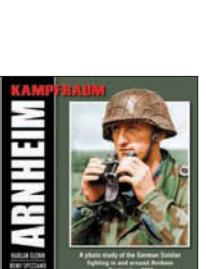
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Tel: (UK) 01525 222573

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Email: enquiries@modelmilitary.com

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SCALE MODELWORLD 2013 and IPMS (UK) UPDATE

Such has been the demand for space at Scale ModelWorld this year, the last trade locations have now been filled some seven months in advance of the show taking place. In 2012, some 140 traders attended the event, billed as the largest plastic modelling show in the World. Over 9,000 visitors attended in 2012 and we hope that even more will make the journey to Telford on 9-10 November 2013.

2013 marks the 50th anniversary of the founding of IPMS (UK) and this landmark year has meant exceptional interest in Scale ModelWorld as it will be the focus of several special events - all of which makes it a mouth-watering prospect for modellers from across the globe.

Scale ModelWorld is now a truly international experience and attracts traders from all over the World, with Japanese, Chinese, North American and European operators regularly attending the annual event.

A full list of traders is available on the dedicated Scale ModelWorld website: www.smwshow.com/exhibitors.php

As IPMS (UK) reaches its 50th Anniversary this year, membership is higher than it has ever been and the Society is healthier than ever, with more Branches, more Special Interest Groups and the huge success of Scale ModelWorld all contributing to the steady growth. Membership currently stands at almost 2,900 and continues to rise, making the 3,000 mark a real possibility in 2013.

As recently as 2007, membership numbers were stable at just under 1800. To add over a 1000 new members in the past five years, a 50% increase in size, demonstrates that IPMS remains a significant and important part of the modelling fraternity.

There are more ways than ever to join including online via the website (www.ipmsuk.co.uk) , in addition to the existing methods by post or at the many model shows where IPMS (UK) runs a membership stand.



Thanks to IPMS (UK) for the information and image.

BRONCO

Bronco has sent photos of their forthcoming 1:35 scale Versuchsflakwagen 8.8cm Flak auf Sonderfahrgestell (Pz.Sfl.IVc), kit no. CB35062



Also coming soon is kit no. CB35140 WWII British & Commonwealth War Correspondent Set; and CB35156, DAK "Topolino" Light Staff Car with crew & IFS Infantry Cart.





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www.jerseyfestfair.com

Coming up at IWM London: From Late July 2013

Over the next decade IWM's flagship branch, IWM London, will be remodelled. IWM London is being transformed, creating new gallery spaces and new ways for visitors to explore our rich collections.

The first phase of the masterplan will be launched in summer 2014, with the opening of brand new First World War Galleries to mark the 100 year anniversary of the start of the First World War, a new Atrium and large object displays, as well as new shops and a café which will open directly onto Geraldine Mary Harmsworth Park.

To ensure that the new galleries and transformed Atrium are ready in time for the Centenary in June 2014, building works have begun to create the new museum. IWM London is temporarily closed until 29 July 2013 to deliver the most disruptive construction works. IWM's other London Branches, HMS Belfast and Churchill War Rooms will remain open during this time.

Horrible Histories®: Spies - From 29 July onwards

IWM London's new major family exhibition is based on the popular children's book series written by Terry Deary, which will be celebrating its 20th anniversary in 2013. Visitors will be immersed into the world of Second World War spy-craft, including codes and cyphers, disguises, camouflage, forgeries and gadgets.

Tickets: Adult: £5.50, Concession: £3.95, Child: £2.95

New Art Exhibition - Architecture of War - Opens 29 July 2013

This exhibition will explore how modern war has influenced and impacted on the spaces people inhabit, by bringing together a selection of art from IWM's collection from the First World War to present day. Highlights include works by William Orpen, Ronald Searle, William Scott and Langlands and Bell. Free Admission

Also new is IWM Contemporary - a programme of exhibitions and events by leading artists and photographers whose work is in response to war and conflict. The first exhibition in the programme is Omer Fast: Five Thousand Feet is the Best Opens 29 July 2013.

The London premier of Omer Fast's celebrated film in which the artist interviews drone operators in a Las Vegas hotel about their experiences flying predator drones over Afghanistan and Pakistan. As the film progresses the narrative becomes increasingly disorientating, time and place become confused and questions are raised about the nature of contemporary warfare. Free Admission.

Alongside the new exhibition programme many of our other galleries will reopen:

- Visitors can explore what life was like at home during the Second World War in A Family in Wartime
- The world of espionage is examined in Secret War which will include some recent acquisitions that look at surveillance and spying today
- The Lord Ashcroft Gallery: Extraordinary Heroes where visitors can explore stories of bravery through those who have been awarded the Victoria Cross and George Cross medals
- People's War: Second World War Portraits, which showcases IWM's rich art collection
- The award-winning Holocaust Exhibition

IWM London will fully re-open to the public in summer 2014 after a year of continued transformation and development.

While IWM London is partially open (from July 2013 - summer 2014) the new First World War Galleries and Atrium will remain closed and there will be no large objects including aircraft, tanks and artillery on display.

Visit iwm.org.uk to find out more about the transformation.



Thanks to IWM London for the information and image.

Hf.2 Schwerer Heeresfeldwagen

6517 Item code 1:35 scale



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One of the prototype Leopard 2 MBT crossing a bridge. Note the shape of the turret

LEOPARD 2 MAIN BATTLE TANK

The Leopard 2 Main Battle Tank was developed by Krauss-Maffei in the early 1970s. It replaced the earlier Leopard 1 series as the Main Battle Tank of the German Army. The Leopard 2 first entered service in 1979 and has been continuously modernised and upgraded over the years since its introduction, serving with the armed forces of Germany and twelve other countries. The Leopard 2 has seen active service in Kosovo with the German Army and Afghanistan, and with the Danish and Canadian contingents of the International Security Assistance Force (ISAF). Over 3,480 Leopard 2s have been produced since it first entered service.

HISTORY

In 1963, the United States and Germany began work on a joint tank development. This was expected to ease logistics and supply for NATO. The new tank was known as the MBT70 and was quite a revolutionary design. Unfortunately, many of its systems were just too complex and expensive which eventually put an end to the project in 1969.

In 1970, the German Ministry of Defence recommended the development of an earlier project,

the 'Vergoldeter Leopard', be continued. This project had been cancelled due to the MBT70 development. The name of the new design was changed in 1971 to the Leopard 2, with seventeen prototypes ordered in the same year (seventeen turrets and 16 hulls). The prototypes looked very similar to the Leopard 1 A4, but the bow was more of a wedge shape and the exhaust grille was on the rear plate. The road wheels, 12 cylinder MTU MB-873 Ka-500 water-cooled multi-fuel four-stroke engine, its 20 kW generator, gearbox, air filters, and the cooling and braking systems all came from the MBT70. The engine system formed such a compact group it could be easily replaced in 15 minutes. Of the seventeen turrets, ten were fitted with a 105mm smoothbore gun and seven with a 120mm smoothbore gun, both designed and produced by Rheinmetall.

After analysing the Yom Kippur War in the Middle East, it became evident that increased armour protection was needed due to advances in Soviet anti-armour weapons. The outcome was a decision to upgrade the Leopard 2 to MLC 60 (Military Loading Class 60 tons), which allowed an increased in armour protection. This

combined with newly developed, multi-layer armour resulted in a breakthrough in the Leopard 2 program. Prototype turret number fourteen was changed to test this new armour configuration. This combined with the large ammunition storage locker in the rear bustle resulted in a larger turret than the turret of a Leopard 1. Prototype 14 was also fitted with the 120mm Rheinmetall gun. Talks between the US and German Governments began in 1973. These were undertaken with the aim of standardising certain components of both countries Main Battle Tanks. An agreement was finally made in 1976 to study how the Leopard 2 could be modified to meet the US Military's requirements. Porsche, Krauss-Maffei, and Wegmann designed and built the Leopard 2 AV (Austere Version), this was based on the altered German and US military demands.

In June 1976 a prototype known as the Leopard 2AV was shipped to the USA. It arrived in late August 1976 and comparative tests between the Leopard 2AV and the XM1 Abrams were held from 1 September until December 1976 at the Aberdeen Proving Ground. Before tests had even begun the US had already selected the Chrysler XM1 Abrams prototype for

Stuart Ransley examines the history, technology and variants of the Leopard 2 Main Battle Tank

full production.

In September 1977 1800 Leopard 2 were ordered by the German Government. These were to be produced in five batches, with the first batch being delivered on 25 October 1979.

DESCRIPTION

The Leopard 2 has a crew of four: Commander, loader, gunner and driver. The tank is of a conventional layout with the turret mounted in the center of the vehicle, driver's position in the front and engine in the rear. The driver's position is located at the right front of the vehicle, with access via a large pintle mounted lift and swing type hatch. There are two observation periscopes in this hatch; one of these can be fitted with passive IR viewer for night operations. There is another mounted to the left of the hatch which is used when driving with the hatch closed. An escape hatch is provided in the floor of the driver's position.

The turret is mounted in the centre of the hull and has the commander and gunner stations in the right side, and the loader in the left side. The commander and the loader each have a circular hatch, which opens to the rear. The commander has six periscopes provide all-round vision. Both ►



Right hand side close up view of a Leopard 2A4 in service with the Finnish Army. (Photo by Andreas Larka)



Close up of the turret and driver's hatch on a Leopard 2A4 in service with the Finnish Army.
(Photo by Andreas Larka)



Right side view of a Leopard 2A4 in service with the Finnish Army. (Photo by Andreas Larka)



Left side up view of a Leopard 2A4 in service with the Finnish Army. (Photo by Andreas Larka)



Close up of the turret front of a Leopard 2A4 in service with the Finnish Army.
(Photo by Andreas Larka)



Front view of a Leopard 2A4 in service with the Finnish Army. (Photo by Andreas Larka)



Close up front view of a Leopard 2A4 in service with the Finnish Army. Note the track grousers stowed
on the front of the hull. (Photo by Andreas Larka)



Close up of the rear drive sprocket of a Leopard 2A4 in service with the Finnish Army.
(Photo by Andreas Larka)



Think Tank - Leopard 2 Main Battle Tank

► hatches have ring mounts for a 7.62 mm MG-3 machine gun, though it is normally installed on the loader's hatch. Originally the first 200 Leopard 2 were fitted with the Panzer-Ziel-und-Beobachtungsgerät (PZB) 200ow light TV system (LLLTV) as the thermal sight for the gunner's EMES 15 primary sight was not ready during production, though all vehicles were prepared so the sight could retro fitted at a later stage. The EMES 15/FLT-2 fire control system consists of:

- gunner's primary sight with mirror stabilized in azimuth and elevation
- laser transmitter and receiver
- thermal imaging system and eye piece assembly
- commander's and gunner's control units
- commander's display unit
- computer control unit
- commander's joy-stick hand control
- digital ballistic computer, which calculates the relevant data for a firing solution
- cross wind velocity sensor (first batch only)
- gun elevation sensor
- laser electronics box
- cant angle sensor
- interconnecting cable set

The gunner also has an auxiliary telescope with 8X magnification mounted co-axially on the right of the main gun. An independent and fully stabilised PERI R-17 primary panoramic sight with magnifications of x2 and x8 is fitted at the front of the commander's position. This sight has 360 degree traverse and allows the commander to take control from the gunner if needed.

For communications there are two SEM 25/SEM35 radio sets fitted behind the commander in the rear of the turret.

The engine compartment is located at the rear of the vehicle. The tank is fitted with an MTU MB 873 Ka-501 liquid-cooled 47.6 litre V-12 cylinder 4-stroke exhaust turbocharged diesel engine. This engine develops 1,104 kW (1,500 PS) at 2,600 rpm, this, coupled to the Renk HSWL 354 hydro-kinetic planetary gearbox gives the Leopard 2 a maximum road speed of 68 km/h. The vehicle is fitted with four fuel tanks that have a total capacity of 1,160 litres, giving a maximum road range of about 500 km. The Leopard 2 is fitted with an automatic fire detection system and a NBC protection system. The tank is able to ford water obstacles 1.20 m deep without any preparation, and about 15 minutes preparation is required to get the tank ready for crossing water obstacles at a depth of 4 m, including the fitting of a special three-piece snorkel to the commander's cupola.

ARMAMENT

The Leopard 2 is fitted with a 120 mm Rheinmetall main gun. This is fully stabilised in both azimuth and elevation. The gun fires two types of ammunition: APFSDS-T (Armour Piercing Fin Stabilised Discarding Sabot) and HEAT-MP-T (High Explosive Anti-Tank Multi-Purpose). Both types having combustible cases. 27 rounds of 120 mm ammunition are carried in the forward section of the hull, to the left of the driver's station; an additional 15 (making a total of 42) are carried in the left side of the turret bustle. The turret ammunition bins are fitted with blow-off panels in the roof and are designed to direct any ammunition explosion upwards away from the crew. A co-axial 7.62mm MG 3 is mounted to the left of the main gun and 4,750 rounds of machine gun ammunition are carried.



Polish Leopard 2A4s prepared for deep wading. Note the trunk around the Commander's hatch.
(photo: Ministerstwo Obrony Narodowej)



Swiss Leopard 2 A4



Leopard 2A4 in service with the Norwegian Army (photo: soldatnytt.)



Leopard 2A5 in service with the German Army. Note the change in turret shape and size from the earlier leopard 2A4.
(Photo: Bundeswehr/Modes)

VARIANTS

LEOPARD 2A1

The second batch of 450 vehicles was delivered by the end of November 1983. A number of improvements were incorporated in this batch including a revised commander's cupola and the introduction of the tank thermal sight. Fillers and caps were added to the forward hull fuel tanks to reduce the time it took to refuel, the ammunition stowage racks were changed and used the same as those fitted to the M1A1 Abrams, and other minor changes were made as well.

The third batch of 300 vehicles was delivered by the end of November 1984. Further design changes were made to these vehicles, the most notable being the addition of a deflector, which raised the position of the commander's primary panoramic sight, and a larger cover plate for the top of the NBC protection system. These changes were also added to the second batch.

LEOPARD 2A2

This designation was given to the upgraded vehicles of the first batch of Leopard 2s. They were brought up to the standard of the second and third batches by the replacement of the original PZB 200 sights with thermal sights for the EMES 15 as they became available, the fitting of fuel filler openings and caps to the forward hull fuel tanks, the addition of a deflector plate for the commander's primary panoramic sight and a large cover plate to protect the NBC protection system. The upgrade programme began in 1984 and was finished in 1987; the third, fourth and fifth batches that were produced in this period were given the same upgrades.

LEOPARD 2A3

The fourth batch of 300 vehicles was delivered by December 1985. The most significant changes to this batch were the installation of the new digital SEM 80/90 VHF

radio and re designed exhaust grilles with circular bars.

LEOPARD 2A4

The fifth batch of 370 vehicles was delivered by March 1987. In this batch, the fire control system received a digital upgrade, a new fire suppression system was fitted, the return rollers were repositioned and the turret armour was increased. An order for a sixth batch of 150 vehicles was placed in June 1987 and delivered by the end of May 1989. These Leopards were fitted with Diehl 570FT tracks, maintenance-free batteries and the Ammunition loading hatch on the left hand side of the turret was deleted. A seventh batch of 100 vehicles was delivered by April 1990. These vehicles were produced with all the current upgrades of the previous batch. A further 75 vehicles were delivered between January 1991 and March 1992. These vehicles had changes to the bases of the smoke projectors on the turret and were fitted with a new muzzle reference system. These changes were retrofitted to the previous production vehicles.

LEOPARD 2A5

Due to advances in Soviet Tank design it was decided that the Leopard 2 series was falling behind and as such further development work was started. A number of options were looked at including production of additional Leopard 2, improvement of the Leopard 2, development of a new turret for the Leopard 2 with an automatic loader, or the development of an entirely new vehicle. With the political change that swept through Eastern Europe in the 1990s bringing about the end of the cold war, resulting in reduced defence budgets it was decided to improve the existing design of the Leopard 2. This programme was divided into three stages, known as KWS I, KWS II, and KWS III.

KWS I: examined the adoption of a longer L/55 120 mm main



Right hand side view of a Leopard 2A6 in service with the German Army.



Left hand side view of a Leopard 2A6 in service with the German Army.



A German Army Leopard 2A6M, assigned to 104th Panzer Battalion, lays down a cover of white smoke during Saber Junction 2012 at the Joint Multinational Readiness Center in Hohenfels, Germany, Oct. 25. The U.S. Army Europe's exercise Saber Junction trains U.S. personnel and 1800 multinational partners from 18 nations ensuring multinational interoperability and an agile, ready coalition force. (U.S. Army photo by Visual Information Specialist Markus Rauchenberger/released)



A front view of a German Army Leopard 2A6. Note the camouflage net. The multi-barrelled device seen above the gun barrel is a gunfire simulator used in training. (photo © Bundeswehr/Michael Mandt)



A German Army Leopard 2A6 entering the water during a river crossing. Note the deep wading trunk fixed to the commanders hatch and the cover over the muzzle of the 120mm gun. (photo © Bundeswehr/Trotzki)



A heavily camouflaged Leopard 2A6. (photo © Bundeswehr/Trotzki)



A German Army Leopard 2A6 at speed in the mud. (photo Bundeswehr/Winkler)



Think Tank - Leopard 2 Main Battle Tank

► gun. This gun used improved ammunition that gave an increased muzzle velocity of 1,800 m/s. This stage of the improvement program resulted in the Leopard 2 A6.

KWS II looked at the development of increased armour protection for the crew and improved command and control system capabilities. This stage of the improvement programme resulted in the Leopard 2 A5.

KWS III considered the adoption of a 140mm main gun.

Vehicles of the sixth, seventh and eighth production batches were selected for the upgrade programme with the first Leopard 2A5 being delivered to the German army on 30th November 1995. The main changes to the hull were a new electronically operated drivers hatch, a reversing camera and new steel road wheels. Spall liners were fitted to the crew compartment to reduce fragments if the armour is penetrated.

The changes to the turret included:

1. New wedge-shaped, spaced add on armour sections fitted to the turret front and sides. (These are designed to improve protection from shaped charge rounds mostly from Infantry Anti Armour weapons.)
2. A completely redesigned gun mantlet.
3. Additional stowage bins fitted to the sides and rear of the turret.
4. Spall liners inside the turret.
5. A new all electric gun control and stabilisation system.
6. The commander's sight was moved behind the hatch and it received an independent thermal channel.
7. The gunner's sight is now located on the turret roof as opposed to the front of the turret in previous models.
8. A GPS navigation system with its aerial installed on the turret roof.
9. The gun mounting and braking system was modified to prepare for the later mounting of the new 120mm L55 gun tube.

The additional armour and upgrades has increased the combat weight of the Leopard 2 A5 to 59,500 kg. As the vehicle was designed to allow for an increase in weight, the vehicles performance has not been affected by the upgrades.

LEOPARD 2A6

The Leopard 2A6 resulted from the KWS I stage of the Leopard 2 upgrade programme. The vehicle is fitted with a longer 120mm L55 gun, an auxiliary engine, improved mine protection and an air-conditioning system. The



A Canadian Leopard 2A6M CAN tank protects U.S. Sailors assigned to Naval Mobile Construction Battalions 40 and 18 as they clear a new section of Route Hyena in Kandahar province, Afghanistan, Dec. 23, 2010. Note the bar armour down the sides of the hull and turret and its condition. (U.S. Navy photo by Chief Mass Communication Specialist Michael B. Watkins/Released)



A Canadian Leopard 2A6M CAN fitted with a mine plow or rollers. (U.S. Navy photo by Chief Mass Communication Specialist Michael B. Watkins/Released)



View of the left side of a Leopard 2 PSO. (photo © Bundeswehr/Trotzki)

German Army has upgraded 225 of its Leopard 2A5 tanks to 2A6 standard, the first of which was delivered in March 2001.

The new 120mm L55 gun was developed by Rheinmetall GmbH to replace the shorter 120mm L44 gun on the older models of the Leopard 2. It can be retrofitted to the older gun mountings without substantial alterations. The new gun has greater performance than the shorter L44 gun and with newly developed ammunition can defeat any known tank in service today.

The armour protecting the Leopard 2 A6 is third generation composite armour. The turret has further protection on the front and sides with externally mounted add-on armour modules. A spall liner is fitted to the inside of the turret to reduce fragment in the event of a weapon penetration through the armour. The spall liner also provides noise and thermal insulation.

The Leopard 2 A6 is one of the best protected Main Battle Tanks in the world, standing in the same class as the US M1A2 SEP Abrams.

LEOPARD 2A7+

The Leopard 2A7+ is the next generation of Main Battle Tanks and was first seen in public during the Eurosatory 2010. It has been tested by the Bundeswehr for urban operations with the planned upgrade of 50 Leopard 2 to A7 standard starting in 2012. The Leopard 2A7 is designed for both low and high intensity conflicts. It is armed with a 120mmL55 main gun capable of firing a new programmable High Explosive round that gives the crew the ability to engage targets behind cover. The Leopard 2A7 is also

armed with a FLW 200 remote weapon station, which is mounted on the roof of the turret. It is also fitted with a dozer blade for obstacle clearing.

LEOPARD 2 PSO

The Leopard 2 PSO Peace Support Operations is a new development similar to the US M1 TUSK (Tank Urban Survivability Kit.) It provides added protection to the hull and turret as threats in an urban scenario can come from any direction. The turret is fitted with a remote weapons station, which allows the crew to engage close in targets from any direction. The vehicle is also fitted with a dozer blade for barricade and obstacle removal.

FOREIGN OPERATORS

At the beginning of the 21st century, Germany and the Netherlands found themselves with large stocks of surplus tanks and other armoured vehicles that they had no need for after the end of the Cold War. These tanks were sold to other NATO or friendly armies around the world. Among these were Austria (114), Canada (100), Chile (140), Denmark (51), Finland (139), Greece (183), Norway (52), Poland (128), Portugal (37), Singapore (96) Spain (108), Sweden (160), and Turkey (339) were among the buyers of the surplus tanks.

CANADA

In October 2003 Canada began to look for a replacement for its aging Leopard C1 fleet. The Stryker mobile gun system had been shortlisted as a suitable replacement, however events in Afghanistan caused a major rethink. The Canadian Government

approached 6 different allied nations re surplus tank sales. They received proposals from 3 and ended up making 2 purchases.

Initially, 20 Leopard 2A6M tanks were leased from Germany to replace the Leopard C1 tanks in Afghanistan.

20 Leopard 2A6-NL and 80 Leopard 2A4s were purchased from the Dutch as well as a number of other vehicles from the Swiss that will be used for training and for spares.

THE LEOPARD 2A4M CAN

This vehicle was specifically upgraded for use in Afghanistan. The first 20 vehicles were delivered in Oct 2010 though only 5 were deployed. The vehicles were fully refurbished, but retained the 120mm L44 main gun. The protection was enhanced with the addition of applique composite armour resembling that found on the most recent Leopard 2A7+, but was modified to fit the turret of the 2A4. Bar Armour was added to the rear of the turret and around

the engine compartment to provide protection against RPGs. They are also fitted with the Barracuda Camouflage system while deployed.

LEOPARD 2A6M CAN

These vehicles were upgraded with bar armour down the sides and rear of the hull and turret, integrated mine and IED protection, and a redesigned crew compartment. These vehicles were also fitted with Air conditioning and the Barracuda Camouflage system.

GREECE

The Greek Army ordered 170 Leopard 2 Tanks in 2003. 140 were built in Greece and were delivered between 2006 and 2009. They were a derivative of the Leopard 2A6 and known as the Leopard 2 Hel the "Hel" stands for "Hellenic".

SPAIN

The Leopard 2E is the Spanish designation of a derivative of the Leopard 2A6, but with greater armour protection. ▶



Close-up of the turret showing the Remote Weapons Station and the additional armour.





ENGINEERING AND ARMOURED RECOVERY TANKS

BERGEPANZER 3 Büffel

The BPz3 is an armoured recovery vehicle based on the Leopard 2 hull but fitted with a crane and integral winch, allowing it to approach and recover broken down and battle-damaged vehicles, and tow them to safety. It is fitted with a machine gun for local self-defence, smoke grenade launchers, and an NBC protection system. It is powered by the same diesel engine as the Leopard 2. The BPz 3 is in service with Germany, Netherlands, Austria, Canada, Greece, Singapore, Spain, Sweden and Switzerland.

PANZERSCHNELLBRÜCKE 2

The Panzerschnellbrücke 2 is an armoured bridge layer built on a Leopard 2 chassis. It carries a re-useable folding bridge which can be placed by the vehicle across a gap or other obstacle.

PIONIERPANZER 3 KODIAK

Pionierpanzer 3 Kodiak is an Armoured Combat Engineer Vehicle built on the Leopard 2 chassis. It is equipped with a dozer blade, excavator and dual capstan winches. The dozer blade can be removed and a vehicle width mine plow fitted for minefield clearance. It is armed with a Remote Weapon

Station for self defence. The vehicle is used primarily for clearance of obstacles (including minefields).

LEOPARD 2R

Developed by Patria for the Finnish Army the Leopard 2R is a heavy mine breaching vehicle, based on the Leopard 2A4. A total of ten vehicles were converted. The Leopard 2R can be fitted with a mine-plough or a dozer blade, and an automated marking system.

LEOPARD 2L

Developed by KMW and Patria for the Finnish Army, the Leopard 2L is an armoured vehicle-launched bridge. Ten were converted from Leopard 2 A4 tanks.

The Leopard 2 has proven to be a very versatile vehicle. It has been in service for the past 33 years and has been continually able to be upgraded. It has been adopted by most countries in Europe and is due to remain in service for many years to come.

I would like to thank Andreas Larka for allowing me to use his photos of the Leopard 2A4 tanks in service with the Finnish Army. His web site <http://www.andreaslarka.net> is well worth a look. ■



Side view of the new Leopard 2A7+ (photo by AMB Brescia)



Close up of the driver's position on the new Leopard 2A7+ (photo by AMB Brescia)



Close up showing the thickness of the armoured side skirts on the Leopard 2A7+ (photo by AMB Brescia)



Side view of a Bergepanzer 3 Büffel recovery vehicle. (photo by Alf Van Beem)



Close up of the Remote Weapons Station on the turret of the Leopard 2A7+ (photo by AMB Brescia)



Rear view of the Leopard 2A7+ (photo by AMB Brescia)

**BRAND NEW
TOOLING!**



03097
Leopard 2A6 / A6M, 1:35



Model detail
03096 SPz PUMA



03096 SPz PUMA, 1:35



Model detail Leopard 2A6 / A6M



Model detail Leopard 2A6 / A6M

Big Cats on the Prowl

1:35 Leopard 2A6/A6M and SPz PUMA

03097/03096

Introduced in 1979, the Leopard 2 main battle tank is still considered to be one of the best combat vehicles in the world. A continuously evolving development programme saw the 2A6 version enter service with the German Army in 2001, carrying the powerful L55 Rheinmetall 120 mm cannon and capable of reaching an impressive top speed on 72km/h.

The later 2A6M variant offered enhanced mine protection plus a number of internal modifications to improve crew survivability. It is currently on active service with a number of countries including Canada, the Netherlands and Portugal.

The PUMA armoured personnel carrier is the most modern infantry vehicle to be developed for the German Army. It combines the highest levels of protection with excellent mobility and firepower plus its modest weight makes it extremely suitable for air transportation.

It also offers a close range observation and control system that acquires and evaluates important target data that the digital fire control system then utilises to direct the stabilised main cannon. Carrying 3 crew and 6 infantrymen the PUMA is currently undergoing operational proving with the German Army and the first vehicles are likely to go into service in 2013.

Both the **PUMA** and **Leopard** model kits feature:

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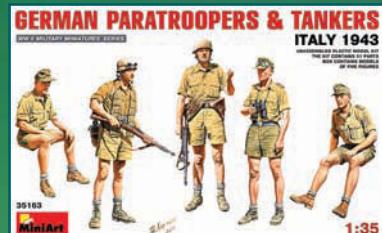
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1:16 Ernst Udet, WWI Flying Ace



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1:3 SR16



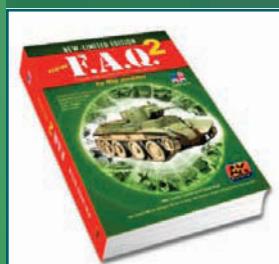
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1:3 SR5



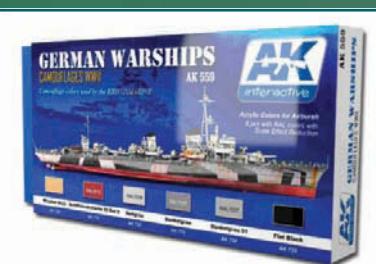
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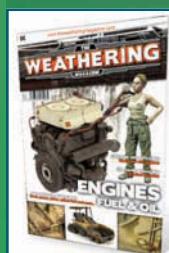
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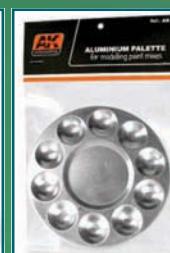
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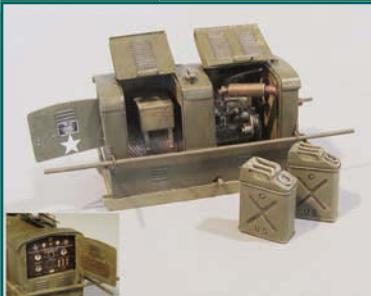


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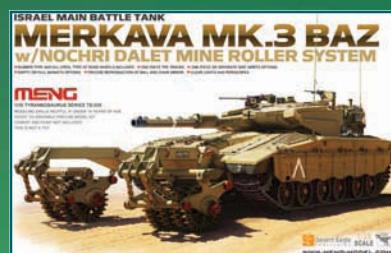


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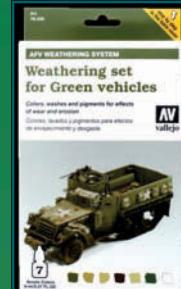


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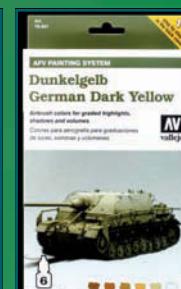
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LEOPARD IN THE SANDP

Andrew Judson mates two deadly carnivores - Leopard and Barracuda - in an ambitious update to HobbyBoss's 1:35 Leopard 2A6M CAN.



N
IT'

"When I received a copy of the Tankograd book covering the Leopard 2A6 CAN containing all those shots in Afghanistan with the Barracuda camouflage system, I suddenly had the urge to build one... ,"



The HobbyBoss Leopard 2A6M CAN includes plastic bar armour.

The Leopard 2A6M CAN is the Canadian variant of the Leopard 2A6 from Germany. Modifications include boxes mounted on the rear of the turret, most likely carrying communications gear considering they are lined up with the antenna stands. There is extra armour below and also additional armour on the front of the hull.

The most obvious modification, however, is the slat armour.

The first twenty of these vehicles produced were on loan from the German Bundeswehr to provide further firepower and protection to those serving in Afghanistan.

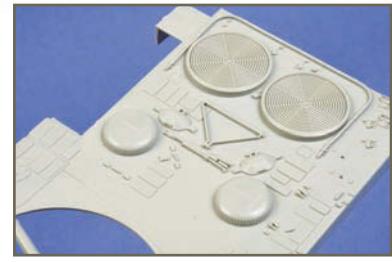
HOBBYBOSS' 1:35 LEOPARD 2A6M CAN IN THE BOX

HobbyBoss has a family of 1:35 scale Leopard tanks as part of its range, including the Leopard 2A6M CAN.

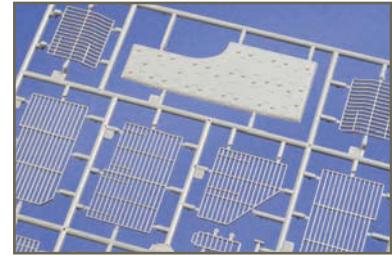
Inside the box are fourteen light grey plastic sprues with a total of 360 parts, some very well detailed full length flexible vinyl tracks, three photo-etched etch frets with 34 parts, mainly for mounting the slat armour, engine grills and light surrounds, two paper sheets with ration and various drink cartons, a tiny decal sheet, a sheet of clear for all the vision ports, an A4 colour paint guide and lastly an eighteen step instruction guide.

One can only be impressed looking at the kit's parts, especially with those sections of slat armour, and the fact that the vehicle has been researched and the actual additional armour, upper turret details have all been included.

Now let's go back to the slat armour. This is some incredible plastic injecting indeed. It is crisp, no warping, and will require only very minimal cleanup before installation. If only model



Moulding quality of the HobbyBoss kit is first rate.



The bar armour is really impressive, and will save a massive amount of time compared to photo-etched parts.

companies would release this style of slat armour for Stryker kits - please?

Building this kit will definitely require some care to make sure all the parts line up right the way through construction, otherwise you may face some difficulty at the end with the slat armour.

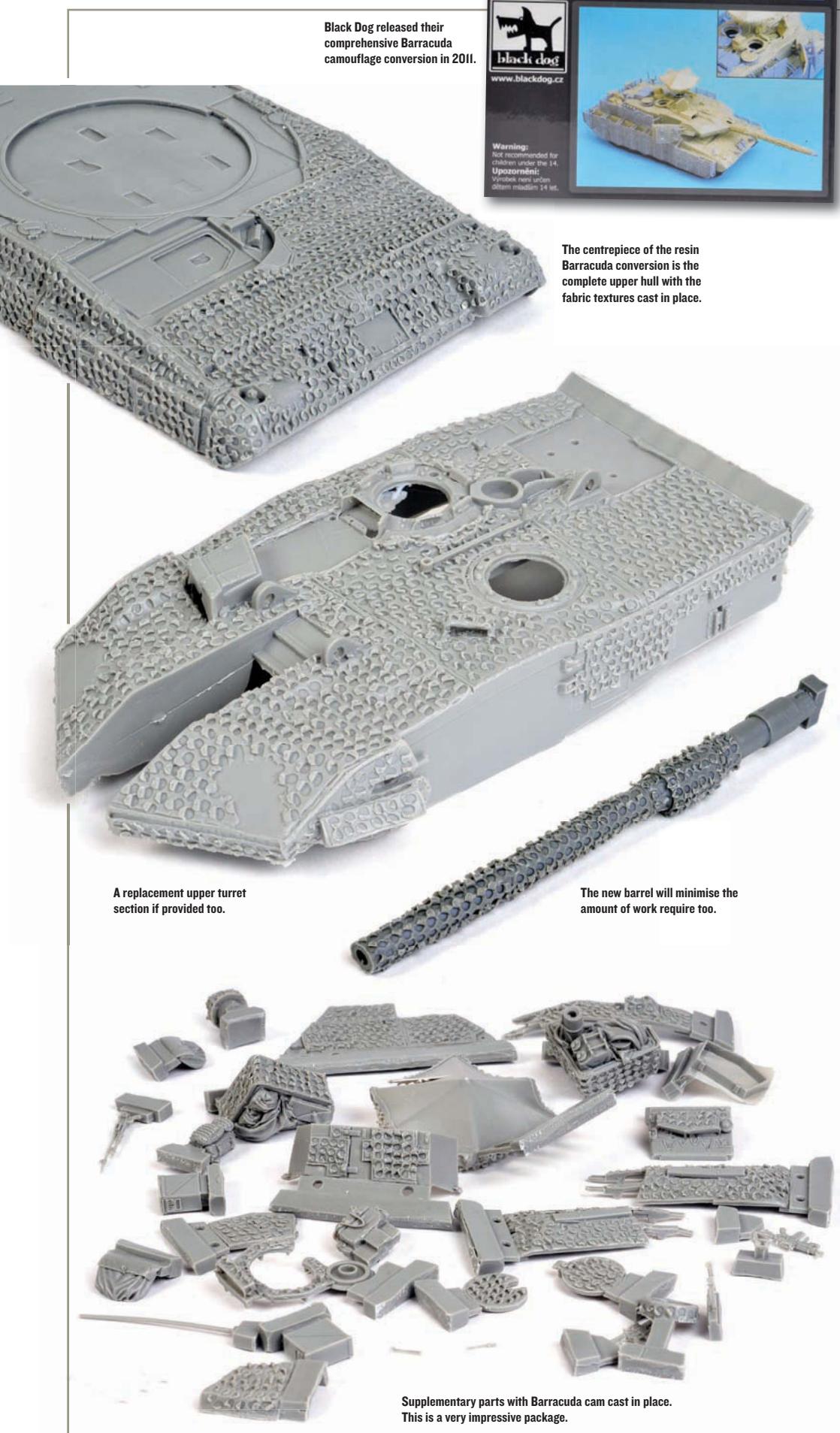
BUILDING THE LEOPARD 2A6M CAN

I have always been a fan of the Leopard Tank series, and when I received a copy of the Tankograd book covering the Leopard 2A6 CAN with all those shots in Afghanistan with the Barracuda camouflage system, I suddenly had the urge to build one.

I already owned the HobbyBoss model of this variant, but the Barracuda camouflage would be the biggest challenge to replicate. Luckily, Black Dog from the Czech Republic came to the rescue with their full conversion set. Let the build begin.

The Hobby Boss kit is a very nice model in the box, with plenty ▶





of detail, and including some very impressive injection moulded plastic bar armour, and some well detailed flexible vinyl tracks.

Black Dog has been bringing us some very nice modern type conversion sets for some time now, and this one will not disappoint. Inside the box is a full upper hull and turret and main gun barrel with some very well cast Barracuda camouflage, an umbrella and various other bits and pieces. It is all in resin and clean up was minimal as was warpage of parts.

Before starting the build of this kit, I carefully read the instructions to work out the best way to tackle the construction and marry up of the kit and the conversion.

In the end, everything was done in sub-sections, being the lower hull, the upper hull and the turret. I had minimal difficulty with the build, apart from fitting the resin turret upper to the kit's lower plastic section, and aligning the mounts and bar armour. A lot of people would probably try to place the bar armour on once everything was painted, but I felt it was safer and easier to have on than possibly damaging the paint later when gluing the intricate structures in place.

PAINTING A DESERT LEOPARD

With all the main construction done (with the exception of a few smaller items), it was now time to start the painting of this beast, which again I did in sub assemblies making it a lot easier, and less time consuming.

I started on the lower hull and running gear with a base coat of Tamiya acrylic XF-67 NATO Green, and then XF-85 Rubber Black around the wheels for the rubber rim. Once dry I then applied a coat of True Earth "Fading 1" all around the running gear and also inside the wheels and left to dry, followed by "Fading 2" in the same areas.

This was done on one side at a time so the fading agent would gather evenly around the wheels details and running gear and not run off. The end result was an effect of heavy dried dust gathered over a period of time inside the wheels as seen in all the photographs I have. The final touch up was a small dot of red in the middle of each centre wheel hub, which is very faint after drying.

With the lower hull done, I next painted the one piece vinyl tracks in a coat of dark dirty brown shown to me by a friend, using a fifty-fifty mix of XF-1 Flat Black and XF-64 Red Brown. I find that this is a great base colour for tracks. Using Life Colour UA703 Light Rust Shadow, I then carefully dry

brushed all the metal areas of the tracks followed by a coat of Life Colour UA731 Dirty Black on all the track pads and then random stippling of XF-85 Rubber Black. The last stage was a coat of True Earth Fading 2. This was also done on the inside of the tracks and they were then glued in place and the lower hull was now complete.

Now it was time to paint up the upper hull and turret together, as these were to be all painted in the same colours. The base colours were XF-59 Desert Yellow, and on the rear engine deck XF-67 NATO Green.

Once these main colours were on I then made up a mixture of XF-59 Desert Yellow and XF-70 Wooden Tan and proceeded to spray this over the Barracuda areas in a random patchy finish as the first stage of making that Barracuda system come to life.

The next step was to apply Citadel's Gryphon Sepia wash over all of the Barracuda finish, leaving it to dry for approximately one hour. When dry, it was all dry brushed with Citadel Tyrant Skull which really brought out the excellent detail of the Barracuda camouflage.

I also dry brushed the bar armour followed by a stippling of my dirty brown mix to give it a banged up look, followed by another dry brush of the Tyrant skull to tone down the scratching effect. Next I applied several coats of both fading agents to the rear engine deck along with some washes of Citadels Sepia and Devlan mud, to show a very dirty dusty engine deck as seen in all the photographs i have.

Once all the colours and main washes and weathering were done, I next applied Citadel's Devlan Mud in a light pin wash into all the panel lines over the kit to highlight the sections of the Barracuda system. ►



The base coat is Tamiya acrylic XF-67 NATO Green on the engine deck with several coats of fading agents. XF-59 Desert Yellow was used as the base coat for the Barracuda camouflage.

► FINISHING TOUCHES

The turret and upper hull were pretty much done now, apart from putting on the antennae, umbrella, weapon box lid, painting these up and also painting the stowage in the stowage. With all those tasks complete, I glued the upper and lower hulls together, and then glued the turret in place. Now sitting in front of me was a Leopard 2A6 CAN serving in Afghanistan. I must say, I was very happy with the final result.

To top it off, I felt it needed a couple of figures to give some scale to this big beast, so into my collection I went coming up with Djitis excellent Canadian Tanker and one of Black Dog's excellent works. These were painted completely in Citadel paints and washes, and once placed on the tank, really looked the part.

CONCLUSION

This was a very enjoyable project that presented many challenges, and taught me a number of new modelling and painting techniques.

I would like to thank Stuart Ransley for providing me with some extra reference photos through his great research skills, and Brett Green for photographing this project as it was being built and his encouragement along the way. ■



Canadian crew figures are available from Black Dog too. One of these was used.



Casting is crisp and the poses are natural.

The other figure is from Djitis.



The Djitis figure sitting on the edge of the hatch is particularly nice. A backpack has been posed on the turret roof too.

Modelspec

HobbyBoss 1:35 Leopard 2A6M CAN Kit No. 82458

Accessories Used

- Black Dog Leopard 2A6 Can Conversion set
- Djiti Canadian Tanker
- Black Dog Canadian Tanker

Paints and Finishing Products

Tamiya Acrylics;
XF-67 NATO Green; XF-85 Rubber Black; XF-78
Wooden Tan; XF-59 Desert Yellow; XF-69 Nato Black
Citadel Acrylics;
Tyrant Skull; Gryphon Sepia; Devlan Mud
Life Colour Acrylics;
UA703 Light Rust Shadow; UA731 Dirty Black
All spraying through Badger Rage.

References

Tankograd Publications
Canadian Leopard 2A6 CAN

Good fit; outstanding detail; striking subject.
 Nothing worth mentioning.

Available from

HobbyBoss kits are available from Creative Models Limited www.creativemodels.net

Rating



The bar armour was beaten up a little to add some variation.

The figures lend a sense of scale to this big beast.



Stowage was added to the bins.



The umbrella is a nice touch.



This was a very enjoyable project that presented many challenges.



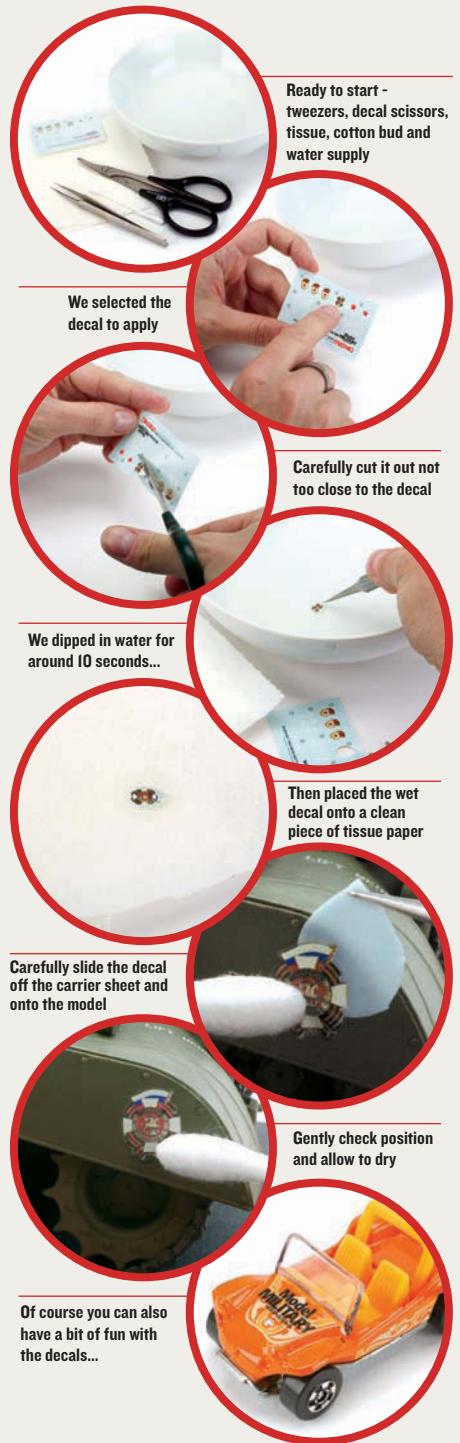
The new Russian T-90A kit is one of the most highly researched and accurate to date. Consisting of 1303 parts on 26 plastic sprues and 10 PE parts on 3 frets including road wheel paint masks. A TPE mantlet rain cover and two 1:35 scale crew helmets are also included.

The V-92S2 engine is perfectly represented with open engine deck. Precise movable suspension system perfectly models the real thing. Cement-free workable double-pin tracks have optional rubber pads. With regard to painting options, the kit provides decals for Victory Day Parade (2008-2012) in Russia and some universal unit numbers and markings to satisfy most modellers' needs.



FREE MENG DECALS

Your cover gift includes four alternative decals options for the brand new MENG 1:35 Russian T-90A Main Battle Tank kit (TS-006).



T-90A TACTICAL MARKINGS

MENG

Tank 124, 20th Separate Motorized Rifle Brigade, Volgograd Parade



20th Separate Motorized Rifle Brigade, Rostov Parade, May 9, 2010



Tank 520, 7th Military Base, Republic of Abkhazia, Russian Federation



Tank 412, 5th Separate Motorized Rifle Brigade, Alabino, Jan. 2013



MENG

RUSSIAN MAIN BATTLE TANK

Российский основной боевой танк

T-90A



- ★ Realistic and movable Torsion Bar Suspension
- ★ Cement-free workable double-pin tracks
- ★ Clear lights and periscopes
- ★ Fine engine parts included
- ★ Precision PE set included

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Gur Khan Books
Publishing House

**1/35
SCALE**



(RI)



By 1943, Soviet tanks found themselves pitted against daunting German super-Panzers and tank destroyers including Tigers and Panthers. It was clear that future enemies would also field such dangerous adversaries, so work began on a new Soviet tank design that was up to the challenge.

The prototype for the new T-54 tank was produced just before the end of the war in February 1945. This was an all-new design with a low silhouette and rounded turret, with five large road wheels on each side, powered by a 12 cylinder diesel engine and armed with the 100 mm D-10T cannon.

The T-55 was initially developed as a response to the need for

nuclear, biological, and chemical protection of the vehicle and its crew. The T-55 received the new V-55 12-cylinder 4-stroke one-chamber 38.88 litre water-cooled diesel engine, improved armour and increased ammunition stowage.

The T-54 and T-55 are simple tanks that are relatively inexpensive to maintain and easy to crew. These attributes made the T-54/55 very popular as an export type, and large numbers were supplied to countries in the Middle East following the 1956 Suez Crisis.

Israel subsequently captured around 400 T-54 and T-55 tanks during the Six-Day War in 1967. These were modified and returned into Israeli service as the Tiran 4

(based on the T-54) and the Tiran 5 (T-55). Further modifications and upgrades continued into the 1970s, and the Tiran 5 was eventually retired from front line service by the early 1980s.

TAMIYA'S NEW 1:35 SCALE TIRAN 5

Tamiya's 1:35 scale T-55 kit was released in 2002 and became an instant classic thanks to its high level of detail, accuracy and ease of assembly. It is still easily the best T-55 kit available in 2013.

In much the same approach as it applied to last year's T-55 Enigma, Tamiya has taken advantage of this excellent base kit to deliver a 1:35 scale Israeli Tiran 5.

Although the running gear, lower hull and some of the detail parts

are from the original boxing, most of this kit is new or modified.

Moulded in dark yellow, Tamiya's 1:35 scale Tiran 5 comprises approximately 291 plastic parts, four large polythene caps, ten small polythene caps, one small sheet of vinyl mesh and two full-length flexible vinyl tracks. Three of the sprues, including the turret, plus the upper hull are brand new.

The cast texture and weld beads are more prominent on this turret than on earlier releases. Options include covered or uncovered mantlet and poseable hatches. Plenty of mounted Jerry cans are supplied for turret and fender stowage, while the .50 cal and two .30 cal machine guns are well detailed.

E)MADE IN ISRAEL

The Editor builds Tamiya's new 1:35 scale Tiran 5, adding some stowage and air identification.



All the parts, whether from 2002 or 2013, are moulded to the same outstanding level of quality.

The suspension features separate swing arms, so the wheels may be posed on uneven terrain if the modeller wishes. The road wheels, idler wheels and

drive sprockets are held in place with polythene caps. I was a little surprised that Tamiya did not take the opportunity to offer a set of link and length tracks with this new kit. The vinyl tracks are well detailed, accurate, fast to install and they may be glued with regular

plastic cement; but with the full top track run exposed on this model, some may prefer individual link tracks. Fortunately there are plenty of options available for replacements - Modelkasten and Friulmodel being the best - if you prefer an alternative to the flexible

vinyl tracks.

Vinyl mesh is supplied for the grilles on the engine deck. The large external fuel drums from previous Tamiya T-55 kits have been replaced by a stowage box on this version. The engine deck appears to be a Russian production ▶



The suspension goes together quickly.



Note how Part 41 interlocks with Part 36. Part 36 should be glued in place first, then Part 41 press-fitted into its locating hole. Part 41 may then be rotated into position and fixed with a bead of Tamiya Extra Thin Liquid Cement.



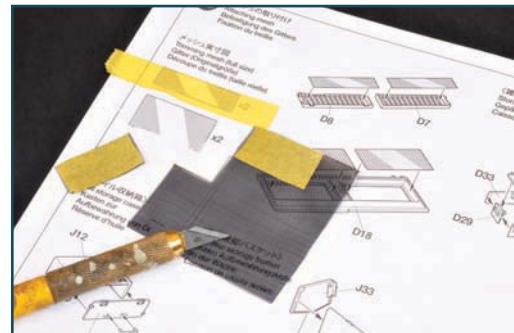
The tyres were roughed up with a coarse sanding stick. This also took care of the very faint raised centreline seam on each of the tyres.



The Tiran 5 features a number of unique stowage bins and other fittings.



More of the newly tooled parts exclusive to Israeli T-55s.



The kit-supplied vinyl mesh looks good with its authentically woven finish. A template was made from Tamiya masking tape before the mesh itself was cut to size.

► pattern, so break out your references to check what style was used on the particular vehicle you will be modelling.

The gun barrel is broken down into left and right halves with an end piece.

This kit retains some of the minor inaccuracies of the original 2002 release. Probably the most obvious of these are the recessed radial ribs on the tyres (they should be raised); and the missing fuel lines from the cells fitted to the fenders. If these issues are of concern to you, there are aftermarket fixes available from a number of sources.

In addition to the original Soviet crew figure, Tamiya has also included two well-sculpted Israeli tankers for the turret hatches. I particularly like the guy with the beard and the sunglasses!

Markings are supplied for one vehicle.

HIT THE GROUND RUNNING

I started building the kit on a Wednesday morning and had

finished basic construction, minus tracks and machine guns, by lunchtime on the following day.

Construction is typical Tamiya - sensible engineering, straightforward parts breakdown and perfect fit. There is no mismatch between the original 2002 and the 2013 parts - everything fits exactly as it should.

There are only a couple of additional construction notes that I would make:

1. I was a bit lost in Step 20. One of the parts initially appeared (to me, anyway) to be unnumbered on the instruction sheet, but it turns out this was illustrated as a scrap view in the bottom right corner of the Step 20 frame. Parts H20 and H21 should be glued together, then they are attached to Part H41.
2. In Step 21 of the instructions, you are advised to drill several holes for jerry cans and stowage boxes to be fitted to the turret. I would recommend that you drill these holes and test-fit the parts before you add any other parts to the bare turret shell - i.e. during Step 15.



The pre-cut mesh is glued on the inside of the engine deck using Tamiya Extra Thin Liquid Cement, then the bottom cover is secured for a convincing result.



The locations of the legs for side guardrail (Part J3) the Commander's .50 cal mount (Part J8) is a little tricky. This is how they should look when fitted.



You will need to drill out holes in the turret for stowage boxes and jerry cans. This should ideally be done before any of the fittings are added to the turret shell.



The basic upper and lower hull sub-assemblies are now complete.



3. I fitted the mounts for the two .30 cal machine guns but left the guns, the ammo boxes and the entire .50 cal assembly off until the model had been painted.

Apart from that, and the replacement of the kit tracks, everything went together exactly according to the instructions.

MAKING TRACKS

Tamiya's flexible tracks are nicely detailed and they fit well, but it is not easy to reproduce the characteristic even drape of the long top run. This would not be a problem if the top of the wheels were covered by mudguards or additional armour, but the Tiran 5 offers no such camouflage.

There are plenty of replacement track options for the T-55 family these days, including individual links from Friulmodel, Modelkasten, Masterclub and WWII Productions. For this project, I chose the workable plastic links from Modelkasten.

Organisation and patience is the key when assembling any set of individual tracks. My first task was to remove all the links from the sprues and trim off any excess plastic that might interfere with the fit or workability of the tracks later on. The links are attached to the sprue at just one point, so removal and clean up is very fast. These were placed in a ziplock plastic bag for later assembly.

Modelkasten thoughtfully moulds the track pins onto sprue handles. Each handle has a pin on each end. These are marked

"1" and "2", and they have to be installed in a particular way to deliver left and right handed track lengths.

An assembly jig for 11 links is also supplied with the tracks. Putting the links together is really quite simple. First, drop the 11 links onto the jig - their location is positive and precise. Next, carefully push a pin into the hole into one of the holes the side of the tracks. You should feel a slight "click" as the pin slides into the correct position, and then you can twist and snap the sprue off, leaving the pin in the hole. Now add a tiny amount of liquid polystyrene cement (I used Tamiya Extra Thin Liquid Cement) to the head of the track pin.

When the short run is complete,

carefully lift the 11 links from the

jig and set them aside until the

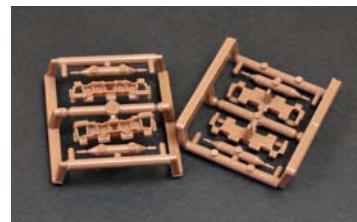
glue has set. Repeat until you

have enough for both track runs.

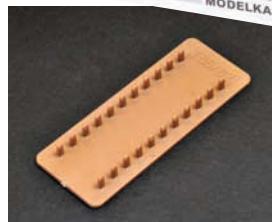
I had eight lengths of 11 links per side, and test fitting suggested that I would need 89 on one side and 90 on the other.

Unfortunately, I had glued the adjustable idler arms (Parts A11) in place before I started working on the tracks. If you are fitting individual link tracks, I urge you to leave the idler arms off until the tracks are ready to install. That way, you can adjust the position of the idler wheel swing arm (which acts as a track tensioner) to the desired amount of track drape. Modelkasten supplies plenty of spare tracks regardless of your preference. ▶

Modelkasten workable tracks were used for this project. No mudguards to hide the top run of the tracks here!



The Modelkasten individual links are held in place with just one sprue attachment. This makes removal and cleanup a breeze.



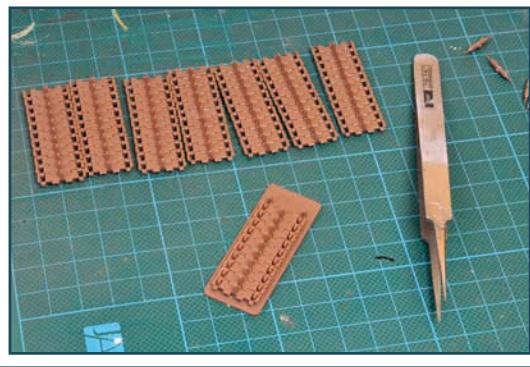
Two assembly jigs are included for joining 11 links at a time.



Organisation is the key to assembling individual link tracks. Here I have removed and cleaned up the individual links and the track pins. They have been sorted into separate zip-lock bags.



The track lengths are handed - there are two different track pins and they are fitted on opposite sides for left and right runs. The pins are left on their short sprue, pressed into the hole in the side of the tracks, then the sprue is twisted off and a tiny dab of Tamiya Extra Thin Liquid Cement is applied to the head of the pin.



Completed sections of 11 links are set aside until a full run of 88 is ready.



Some of the yellow resin parts after removal from (sometimes stout) casting blocks. Detail appears a little soft here but they look much better after painting.



Verlinden offers a helpful set of Israeli Army Military Vehicle Stowage in their resin range.



The tracks are being test-fitted here. The left side tracks were perfect, but the right tracks were a little too loose with 90 links but too tight with 89. I decided on 90. Next time I will not glue the idler adjusters (Part AII) until I fit the tracks.



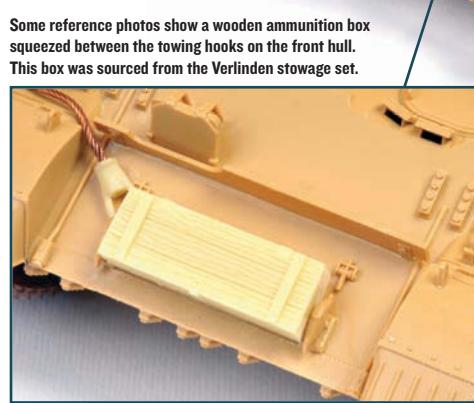
Additional rolls and packs were sculpted from Kneadatite epoxy putty. These are really useful for filling in spaces between hard-shaped commercial stowage pieces.



Extra packs and rolls were made for the rear stowage bin too.



The biggest individual extra item was the Air Identification Panel. This was rolled thin from Kneadatite epoxy putty, folded at one corner and then allowed to drape naturally over the resin stowage.



Some reference photos show a wooden ammunition box squeezed between the towing hooks on the front hull. This box was sourced from the Verlinden stowage set.



All the extra stowage items are in place and the model is ready for paint.

The lovely soft copper tow cables are from Karaya. These also include resin ends, which are nicely detailed but quite brittle.

◀ STOWING UP

All those big empty bins just looked too lonely, so I decided to fill them with stowage.

I also wanted to add a dash of colour to the otherwise fairly plain finish. Sam Dwyer sent me some photographs of IDF tanks with large orange Air Identification Panels on the turret or the rear deck. I knew I had to have one of those!

I bought Verlinden's Israeli Army Military Vehicle Stowage, Item No. 1890, and selected items from this set to go in the big turret bin and the rear hull bin. This set also included some generic packs, which I hung from the turret handrails, and a wooden ammo box, which was glued between the tow hooks on the front of the hull.

Custom packs and tarps were made from Kneadatite.

Kneadatite two-part epoxy putty comes in a blue and yellow strip. When the parts are sufficiently blended, it becomes an even shade of green. When mixed, Kneadatite feels quite stiff compared to Milliput. It is also shinier, with what feels like a harder surface.

I rolled and rubbed the two parts together between my fingers and palms until the colour was a solid green.

I sprinkled my green cutting mat with Johnsons Baby Powder and pressed the epoxy ball onto the surface. A small glass jar was also dusted with baby powder and used as a rolling pin. I rolled the jar firmly over the blended putty, then peeled it off, added more powder and repeated the process until I was happy with the size and the thickness of the epoxy sheet. The epoxy sheet was now trimmed into a rectangle by pressing down with the edge of a steel ruler.

The result was a thin and very flexible rectangle of epoxy - just perfect for my Air Identification panel. One corner of the thin sheet was folded upon itself, then the sheet was carefully placed on top of the stowage in the rear turret basket and allowed to drape naturally with as little manual assistance as possible.

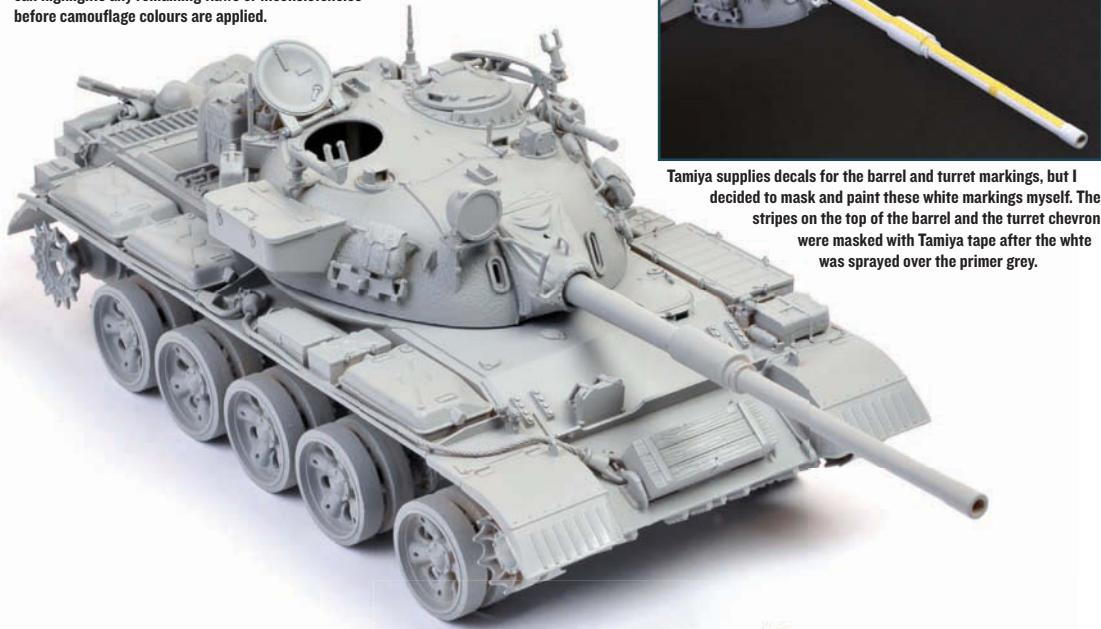
More packs and rolls were formed from Kneadatite for both of the big bins.

SAND GREY

The model was prepared for painting with a base coat of Tamiya's Grey Primer straight from the spray can.

Tamiya supplies white decals for the cannon barrel markings and the chevron on the turret, but I thought that these would look more authentic if they were painted. The areas of the barrel and the ▶

A coat of Tamiya Grey Primer straight from the spray can highlights any remaining flaws or inconsistencies before camouflage colours are applied.



Tamiya supplies decals for the barrel and turret markings, but I decided to mask and paint these white markings myself. The stripes on the top of the barrel and the turret chevron were masked with Tamiya tape after the white was sprayed over the primer grey.

The base camouflage colour is Lifecolor UA902 IDF Sandgrey 2 from their Israeli Army Combo Pigments and Colour Set.



A blend of the base colour plus UA901 IDF Sandgrey 1 was sprayed as a highlight on horizontal surfaces in irregular streaks and mottles. A 50/50 mix of Tamiya XF-1 Flat Black and XF-64 Red Brown was thinned heavily and sprayed in shadow areas too.



The Air Identification Panel was painted with a mix of red and yellow, with green on the undersurface. Here, it is being checked for fit and colour.



◀ turret where the markings would be applied were sprayed white then masked with Tamiya tape.

Lifecolor UA902 "IDF Sandgrey 2" was used as the base camouflage colour. I like Lifecolor's interpretation of this sometimes-elusive Israeli shade. A blend of the base colour plus UA901 "IDF Sandgrey 1" was then sprayed as a highlight on horizontal surfaces in irregular streaks and mottles.

Next, a 50/50 mix of Tamiya XF-1 Flat Black and XF-64 Red Brown was thinned heavily and sprayed in shadow areas.

The Air Identification Panel was painted with a mix of red and yellow, with green on the undersurface.

At this stage I thought I would add a sandy filter - Sin Industries P401 Ochre for Grey Sand to be exact. I hated it. The filter left stark orange patches on the Sandgrey base, which was not the effect I was hoping for. This Ochre filter may look good with some colours, but I decided to rinse it off my Tiran's Sandgrey surface with mineral turpentine.

Kit decals performed perfectly over a glossy coat of Future floor polish and with an application of Solvaset decal setting solution. As usual with most of Tamiya's decals, they look a bit thick on the sheet but settle down nicely once on the surface of the model.

Tyres, jerry cans and spare track links were carefully brush painted "scale black", a 50/50 mix of Vallejo Model Colour 70862 Black Grey and Vallejo Panzer Aces 337 Highlight Ger. (Black), and the other stowage details were picked out using mainly Vallejo acrylics.

A pin wash of AK Interactive's Dark Brown Wash was applied around structural features while ▶



The track lengths were taped to the inside of a box lid and labelled "right" and "left" prior to painting.



The tracks were painted in a base coat of a Tamiya XF-1 Flat Black and XF-64 Red Brown mix, followed by MIG Productions P300 Earth Wash on the outer face and P221 Brown Wash on the inside face.



MODEL KIT No 35476

Kapitän 2-door Saloon

WWII German Staff Car

- This particular kit is the first attempt by ICM to release a Kapitän 2-door Saloon plastic kit in 1:35 scale into the market

- Highly detailed chassis, engine and interior

- 4 versions decal sheet included

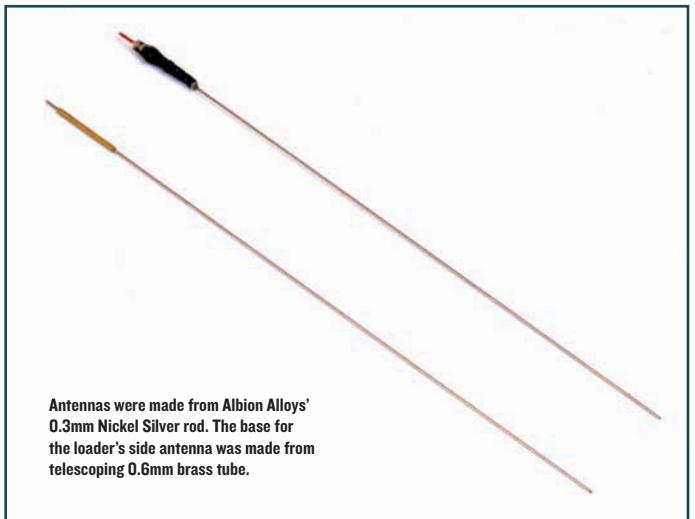




The figures fit the hatches perfectly.



The area around the exhaust was sprayed with a thin mix of Tamiya XF-1 Flat Black and XF-64 Red Brown, followed by a dry powdering of Mig Pigments' P042 Ochre Rust and P416 Fresh Rust, and finally MIG Productions' Standard Rust Effect liquid brushed over the top to seal the pigments and spread the rust.



Antennas were made from Albion Alloys' 0.3mm Nickel Silver rod. The base for the loader's side antenna was made from telescoping 0.6mm brass tube.

The tracks were the source of some anxious moments close to the end of the project. The oil washes must have softened some of the pins and each of the lengths split into two sections. These were glued back together before the tracks were carefully wrapped around the running gear and glued in place.

◀ the model was still glossy. A coat of Testor's Model Master Flat Clear Lacquer sealed the deal.

A DRY-BRUSHING CONVERT

The two kit figures were assembled without modification. I really like the poses and sculpting of these figures, and had fun painting them.

The flesh areas were first primed white, after which they were masked and the uniform sections treated to Tamiya's Grey primer straight from the spray can.

The base colour for the uniform is Vallejo Panzer Aces acrylic 348 Splinter Strips applied by brush.

At this point of the narrative I am tempted to say "although I am not normally a big fan of dry brushing..."

Well, to tell you the truth, I am actually starting to view dry brushing favourably under certain circumstances. As with any technique, however, subtlety is

the key. We are trying to achieve a realistic result, not blatantly flaunt the methods we used to deliver it.

Right, now that I have outed myself as a dry-brusher, I lightly dry brushed the uniform with a paler shade of the base colour. Next, edges were highlighted with thin lines of "scale black".

The flesh base is Vallejo Model Colour 70955 Flat Flesh. The inner sections of the helmets are fitted with padding and headsets. These were represented as a painted black border around the faces. Looks pretty rough here!

The faces received a Burnt Sienna oil wash followed by detail painting with Vallejo acrylics. A topcoat of Testor's Model Master Flat Clear Lacquer sealed the paint job. The finishing touch was a brushed application of glossy Future Floor Polish on the sunglasses and the crystal of the wristwatch.



The Tiran 5 in profile. With the benefit of hindsight, I really should have reduced the track length by one link on this side.



MIG Productions Standard Rust Effects was also applied to the spare track links on the turret and the hull.



Lifecolor's IDF Sandgrey 2 is a pleasing representation of this elusive shade.

CONCLUSION

Tamiya's 1:35 scale Tiran 5 is a great kit that will hold no nasty surprises for even relatively new modellers. The fundamentals are well done, and detail is very good straight from the box.

Modellers who wish to go the extra mile may decide to add workable tracks, plumbing for the fender-mounted fuel cells or stowage.

Either way, you will have an attractive replica of this Israeli T-55 variant, bristling with its distinctive stowage bins, jerry cans, spare track links and close defence machine guns. ■

Modelspec

Tamiya 1:35 scale Israeli Tank Tiran 5 Kit No. 35328

Accessories Used

Modelkasten Item No. SK-59 - T-55 Workable Tracks
Verlinden Item No. 1890 - Israeli Army Military Vehicle Stowage
Karaya Item No. TCR06 - Tow Cables for Modern Russian Armour

Tools and Materials Used:

Kneadatite Blue Yellow Epoxy Putty
Albion Alloys - 0.6mm Brass Tube (from Slide Fit Set SFT1); Ni.Silv Tube 0.3mm (Set No. NST03)
Olfa hobby knife
Revell Contacta Cement
Tamiya Extra Thin Liquid Cement
Tamiya Surface Primer

Paints and Finishing Products:

Vehicle
Tamiya Spray Cans: Grey Primer; Fine White Primer
Lifecolor Israeli Amy Combo Pigments and Colour Set - UA901 IDF Sandgrey 1; UA902 IDF Sandgrey 2.
Tamiya Acrylics - XF-1 Flat Black; XF-57 Buff; XF-59 Desert Yellow; XF-64 Red Brown.
Vallejo Panzer Aces and Model Colour Acrylics - Various Future Floor Polish
Testor's Model Master Flat Clear Lacquer
Sin Industries Filter - P401 Ochre for Grey Sand
MIG Productions - P221 Brown Wash; P300 Earth Wash
MIG Productions - P411 Standard Rust Effects
AK Interactive Enamel Wash - AK 045 Dark Brown
Mig Pigments - P042 Ochre Rust; P416 Fresh Rust
2B Pencil
Figures
Vallejo Model Colour Acrylics: 845 Sunny Skin Tone; 70862 Black Grey; 919 Foundation White; 70955 Flat Flesh
Vallejo Panzer Aces Acrylics: 318 US Army Tankcrew; 337 Highlight Ger. (Black); 348 Splinter Strips

Perfect fit; comprehensive new parts with few compromises; high level of detail; includes two figures.

Recessed ribs on tyres should be raised; missing fuel tank lines.

Available from

Thanks to Tamiya for the sample www.tamiya.com
Tamiya kits are distributed in the UK by The Hobby Company Limited www.hobbyco.net

Rating



Graham Tetley examines the latest in a recent spate of Hungarian armour kits. This latest release is HobbyBoss' 1:35 scale Toldi II.

TOLDI III

Newly arrived is Hobbyboss's latest 1:35 scale version of the Toldi, which is the one without the large circular aerial. Now, I must admit to knowing very little about the real thing before this kit arrived but hey, this is a hobby, we build what looks good, right?

The Toldi was a Hungarian light tank based on the Swedish Landsverk L-60B tank. It was named after the 14th century Hungarian knight Miklós Toldi.

The 38M Toldi was produced and developed under license from Swedish company AB Landsverk between 1939 and 1942. Only 202 were produced. Variants were:

- Toldi I (k.hk. A20) - first variant armed with 20 mm gun, 80 made.
- Toldi II (k.hk. B20) - variant with thicker front armour, 110 made.
- Toldi IIA (k.hk. B40) - modification developed in 1942, armed with 40 mm gun - 80 tanks of earlier variant were rearmed this way.
- Toldi III (k.hk. C40) - improved variant, only 12 made.

Toldi tanks entered Hungarian service in 1940. They first saw action with the Hungarian Army against Yugoslavia in 1941.

These tanks were mostly used against the USSR between 1941-1944. Because of their light armour, armament and good communications equipment, they were mostly used for reconnaissance. The design was no match for the Soviet T-34 medium tanks encountered during the early stages of Operation Barbarossa.

The only two known surviving 38M Toldi tanks (one Toldi I and one Toldi IIA) are preserved on display at the Kubinka Tank Museum.*

In the box we have over 430 parts, although 250 of those are for the tracks. We get two duplicate sprues for the road wheels, suspension parts and

other fittings, one for the main hull and turret parts and another containing the turret stowage bin, gun barrel and mantlet. The upper and lower hull, as well as the upper turret shell, come separately bagged in a compartment in the box. Added to this we have a small photo-etched fret that contains the fender strengtheners, headlight guards and other small parts.

The parts are nicely moulded with no flash or imperfections on my example. Detail is nicely done and very fine in places, worthy of note are the louvres for the hull sides.

Markings are rather plain and comprise decals for one vehicle only.

A test fit of the hull and turret main parts reveal a very good fit with no need for filler.

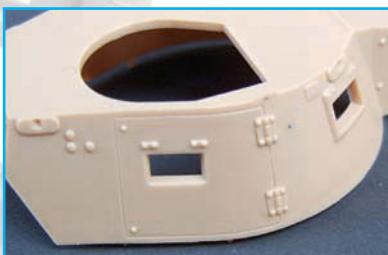
The tracks, all 11 sprues worth, are very fine but that comes at a price. They are each attached to the sprue by 4 attachment points and, at the size of a Panzer I track link, I expect that they will need care in removing from the sprue and cleaning up. They will be tricky to assemble and it would be nice to have them in link and length.

There turret side hatches are moulded closed and, whilst the driver's and commander's hatches can be built open, there is no interior detail behind them. Hungarian tank figures are bit scarce anyway so this is probably one kit best built buttoned up.

The instructions are uncluttered and clear and come with a lovely all-around camouflage paint scheme. This is what draws me to the kit as it will certainly be an eye-catcher.

In the box this looks lovely. The basic tank will pose no construction problems but the tracks will be fiddly. The current retail price is very fair and this one gets the thumbs up from me. ■

HobbyBoss kits are available online from Creative Models Limited www.creativemodels.co.uk



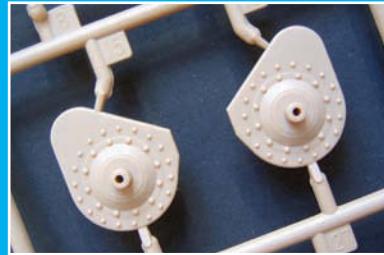
Turret doors are moulded shut.



The photo-etched fret close-up.



Full colour painting instructions.



Detail on the final drive housings.



For plastic, the grilles are lovely.



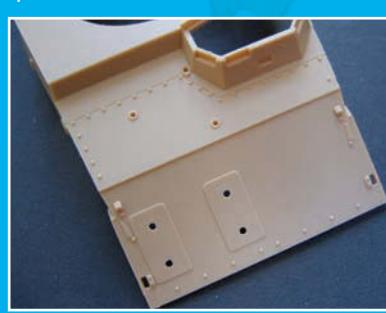
Road wheel close up.



One of the drive sprocket parts.



Sprocket hub detail.



Front hull detail.



Nice vent detail on the rear hull.

*Historical text courtesy Wikipedia [http://en.wikipedia.org/wiki/Toldi_\(tank\)](http://en.wikipedia.org/wiki/Toldi_(tank))

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MODEL KITS**



Accurate Armour

**Classic
SCAMMELL
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Resin and etched brass self-assembly hand made model kits with instructions and water slide decals. Accurately researched and compatible with all 1:35th scale Military Models

**1:35th
Scale models**



K101

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MENG'S FRENCH FANCY

Graham Tetley build's Meng's 1:35 scale AUF1 155mm Self-Propelled Howitzer straight from the box.

Very recently, Meng has gone all 'Ooo La La' and graced us with, initially, a new AMX30 and shortly followed by this beast. I say beast because, to my eye, it has all the beauty of a pile of bricks!

This is strange as, for all of their culture and style, you would think that the French designers would have done a better job to make it more pleasing to the eye.

'ALLO 'ALLO

Anyway, this kit comes in a big box (if this is the Tyrannosaurus Series I would love to see the Brontosaurus one!) that is brim full of parts. Moulding is generally good although there is a little flash on some parts. Rather worryingly for me the parts are moulded in bright green plastic - I believe that Citadel paints call it 'Frog's Leg Green' - and my modelling room has a green carpet so read on to discover how many parts went

missing in action. Thankfully Meng has given us instructions that look like Tamiya produced them as they are wonderfully clear and uncluttered. Markings are provided for one vehicle only in NATO three-colour camouflage. This is not going to be a weekend build, so let's start the stopwatch and dive in.

MOET OR BOLLINGER?

There are 41 assembly steps to this kit so I recommend that you take your time and study the instructions before starting. I tackled it the way the instructions recommend and kicked off with the lower hull and running gear. The suspension is fully workable but, as you will see, due to the fragility of the tracks I ended up gluing it all level. But I digress....

First up are the 4 hydraulic shock absorbers. With great care you can attach Part A8 and make the whole thing moveable. After

this I fixed the shock absorbers to the hull and please pay attention to the instructions and part numbering here. Generally the fit of everything here is quite good, the only exception being that I had to enlarge the locating holes for the lifting rings, part A35. One comment to make on the standard of moulding is that the road wheels and return rollers have a pronounced rim on their outer edges. This is a result of moulding in that the moulds are cut at a slight angle so that the parts can be ejected. It is really prominent here and I had to file all these parts level.

The wheels themselves have a polythene cap attached between both halves and Meng gives us a piece of etched brass to use as a painting mask for the wheel rims. Personally I would rather have had etched brass clamps for the tools, but it is a good idea nonetheless.

LE HULL

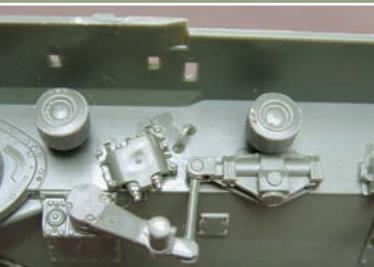
Starting with Step 6, we get to grips with the hull. I had deviated from the instructions somewhat and already built the basic hull by this stage. You get a separate engine deck and rear hull plate specific for this version and all fitted well to the hull. I had to enlarge the hull to get the engine deck to fit, but a few swipes with a coarse file did the job.

There are some fine parts to fit on the hull side and part F38 went 'Ping!' and the puce green part disappeared into my green patterned carpet, never to be seen again.

Now, here comes the one and only fit problem with this kit and that is in the installation of the side panel parts N35 & 36. When you fit them to the hull there is a noticeable gap along the top edge (see photos) and also the mounting points for the tow rope are larger than the parts provided. The fit of



Completed torsion bars with the end caps fitted.



One on the lovely, fully workable, hydraulic shock absorbers.



The fit of the rear hull is perfect.



The tools with moulded on clasps.



The location holes are too big for the parts.



The top hull ready for the engine deck. Those holes had to be enlarged.



The jig used for the tracks.



Suspension by Meng. The Pound coin is mine!

everything else with this kit was so precise that this was a surprise – it is like another team designed it.

In Step 10 we deal with the engine louvres, Parts F2 to F5. The fit of these parts isn't clear and, when you test fit, there are two possible 'looks' to these parts. I went with the one as pictured as the fit seemed easier and, I deduced, that is how they should go.

Moving on to the rear hull, optional parts are provided for the exhaust silencers so that you

can depict them open or closed. At this stage I left off the brass screens but I can confirm that they fit perfectly.

The rest of the hull construction is trouble free with nothing worthy to report. I would add that I assemble the front headlights but left out the clear plastic lenses and light covers to make painting a little easier. Meng offers you the option of adding a clear plastic driver's windscreen but I decided to leave it off.

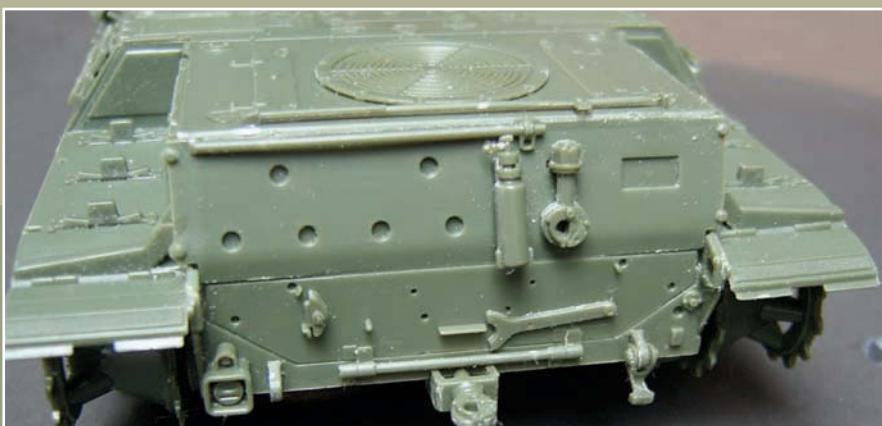
LE GRANDE GUN

Construction of this big, ugly, lump starts with the breech assembly and mantlet, but I sidetracked after this and proceeded to build the turret shell. I can happily report that the parts fit is lovely and, as you can see from the photos, you can fix the mantlet to the turret base and then leave the turret shell separate for painting. I am officially impressed.

I assembled the seats and everything up to step 26, then

skipped forward and attached all of the interior parts to the turret shell. Now, What I did next was assemble the shell racks but I have left them separate for painting. Again, fit is perfect and you can easily glue it in place afterwards.

The exterior is pretty much trouble free as well. I had a few problems with the grab handles as they were so fine that they had been damaged on the sprue, plus some of the other parts had been bent, but this was soon ►



The derriere under construction.



The engine grilles and exhaust mounts.



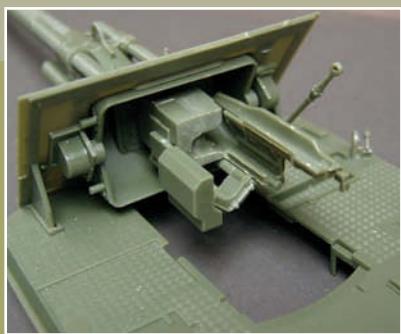
The exhaust guard in place.



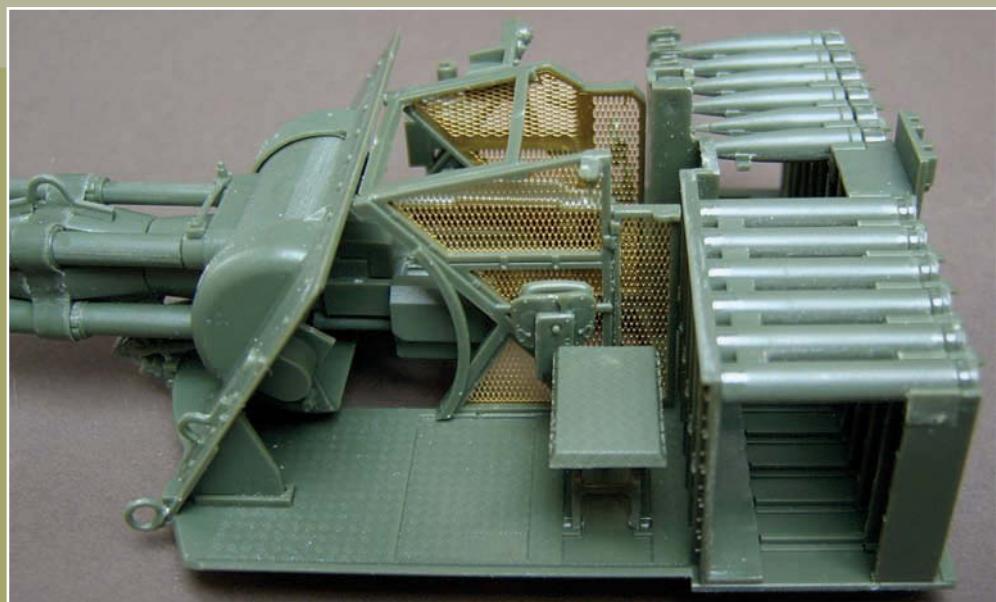
The mount for the shield and exhaust.



One very delicate wing mirror.

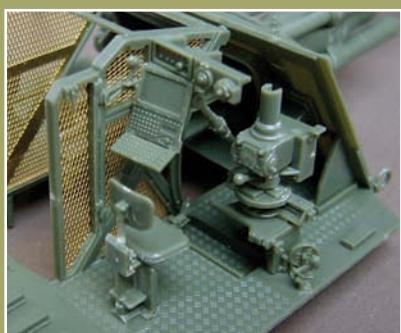


The gun breech is taking shape.



Turret interior side view.

"This is not a weekend build but you do get a lot for your money...,,



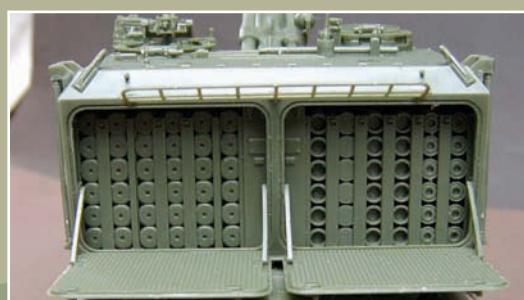
All this just to fire a gun!



Lovely casting numbers on the turret front.



Look Ma No Glue - the assembled turret test fitted.



This thing comes fully stowed.



The view past all those shells.



Room for a tiny crewman.

corrected and you can barely tell on the finished thing. The gun barrel comes in two halves and would benefit from a turned metal replacement, but you can work with what is in the kit.

CAMEMBERT

Sadly, the least enjoyable part of this kit was the tracks. Keeping with the French theme I viewed them as a rather large piece of smelly Camembert!

To be fair to Meng they have done a really nice job on track detail. We have a jig provided that traps a length of lower links ready for the top one to be glued in place. The idea is that, using the jig provided, the top piece traps several plastic pips on the lower link thus allowing them to be workable. Sadly, the pips are not very long and the assembled track lengths are very fragile. I do admit to losing my patience with them, so what I did was I prepared a straight length and glued that roadwheels. Because the track length was rigid I also glued the torsion bars too, so that lovely workable suspension no longer works. I had a hell of a job making the rest of the track fit as it kept breaking apart, but trial and error saw both lengths completed. This part of the build was a chore and if, by the time you are reading this, Fruil have a set out I would strongly advise you to invest in a set.

NOTE - by the time I finished building this kit Fruil have, indeed, released a set of tracks. Get them, you will not regret it.

Meng provides an etched brass mask for painting the track pads but I didn't use it. In my opinion the fragility of the tracks makes this mask unnecessary.

LE END

There we have it. For originality of subject I give Meng a straight 10/10. Apart from those side panels, fit of all parts is remarkably good and, as this has been my first Meng kit, something of a surprise. The instructions are clear and error free, just take your time and study the various options. There are some small and fiddly parts but



The completed .50 cal.

that is normal for a kit nowadays.

If I had to make some suggestions it would be to do away with the wheel and track pad masks and give us instead some brass parts for the tool clasps and other fine detail. Also, MENG would

do well to copy Dragon's 'Magic Track' idea and modify what we have here as it looks a nice idea in practice but really does not work in reality. The tracks were a low point for me as, whilst you can use them, they break apart with ease and are

best replaced for that fact alone when replacements come out.

This is not a weekend build but you do get a lot for your money. I did enjoy the build and, for that reason I would give the kit an 8/10 overall. Finis! ■

Modelspec

Meng 1:35 AUFI Self-Propelled Howitzer

Kit No. TS-004

Generally very good fit; very high level of detail; high quality moulding; excellent instructions.

Fiddly tracks.

Available from

Meng Models' website: <http://www.meng-model.com>

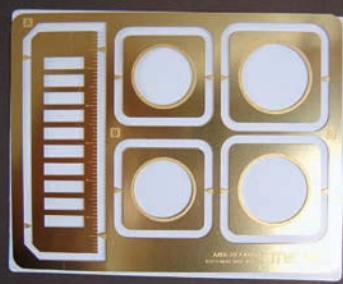
Rating ●●●●●●●○○



Cupola detail and periscope cover.



The finished model with shell stowage on display.



The wheel and track pad painting mask.



OKINAWA STYLE

Kamil Feliks Sztarbała converts Dragon's M4A2 Sherman into a bristling Pacific monster as part of an evocative vignette.

Although the Allied Command abandoned the planned invasion of the Japanese mainland, at least the intensive preparations for the landing paid off for we modern modellers. Archive photos taken at Okinawa reveal many interesting vehicles that were field-modified and up-armoured. One of these pictures shows

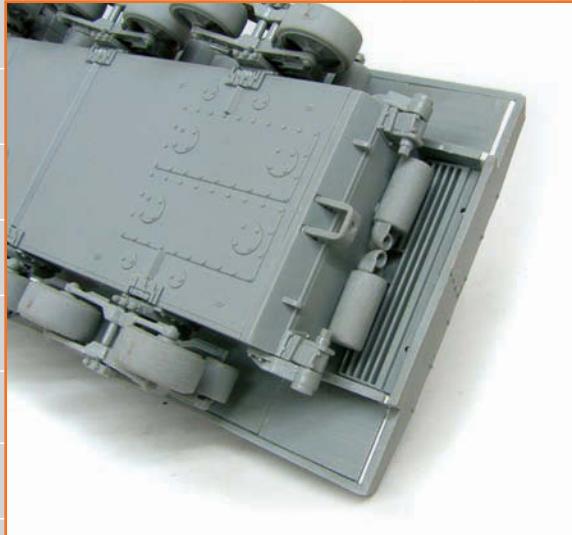
a Sherman tank probably from Company C, 6th Tank Battalion, which had been up-armoured with side skirts made from LVT ramps and other pieces taken from wrecks. That photo was my main inspiration, but I decided that my miniature would comprise various additions visible on the tanks from PTO. The base kit was Dragon's USMC M4A2 Late PTO 2-in-1

(6462). As I wanted to put the vehicle on a small base, I needed some figures as well. The Bodi's Ciao Marial (35031) and Evolution Miniatures' American Marines WWII (EM-35041) sets were donated by Polish shop Sahara Hobby. Last but not least, I ordered a few sets of paper tropical plants from J's Work and Paper Nature.



Building the Sherman

I built the model by simply following the instructions. The assembly went smoothly. Only a few areas needed some attention.



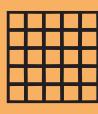
A small gap in the rear part of the hull was filled with a piece of styrene sheet glued with CA adhesive.



As the cast texture on the turret did not quite meet my expectations, I improved it slightly, using a mill.



The kit was ready for up-armouring!



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- Dragon 1:35 Kit No. 6462 USMC M4A2 Sherman PTO • Kit No. 6462



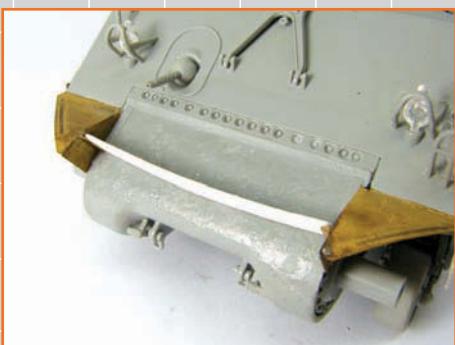
The wooden planks bolted to the bogies were made from pieces of styrene sheets. I started by creating the wood grain effect. I used scribes for that purpose.



Next I rubbed the surfaces with coarse sandpaper to emphasise the wood texture. Please note that the plank received a wash for the photo to make the effect more noticeable.



The finished planks were glued to the bogies. The pins that bolt the additional armour to the suspension were cut from thin styrene rod.



The plank mounted in the front of the hull was created the same way as the side ones.



Many vehicles from PTO featured anti personnel spikes mounted on various hatches. I made them from pieces of 0.5 mm styrene rod that were installed into the previously drilled holes.



The archive photos I had gathered were not sufficient to explain the construction of the side skirts racks, so I had to improvise a bit. I scratch built the racks from 2 mm angles and styrene stripes. The latter were used to create the rack mounts.



The side skirts were originally topped with pipes cut in half. As the plastic pipes were too thick and I don't like to work with metal parts, I had to find another solution. First I properly formed 0.25 mm styrene stripes, using a metal rod. Next I glued a second layer of styrene with CA adhesive to fix the correct shape of the parts.



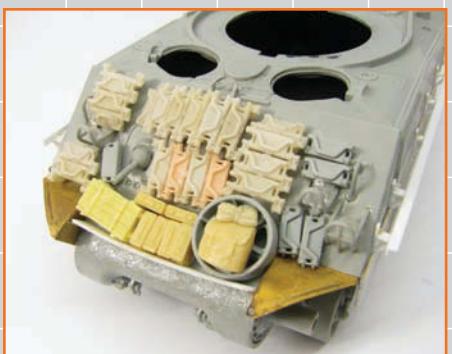
The main parts of the side skirts were cut from 0.5 mm styrene sheets. I estimated their shape and size on the basis of archive photos.



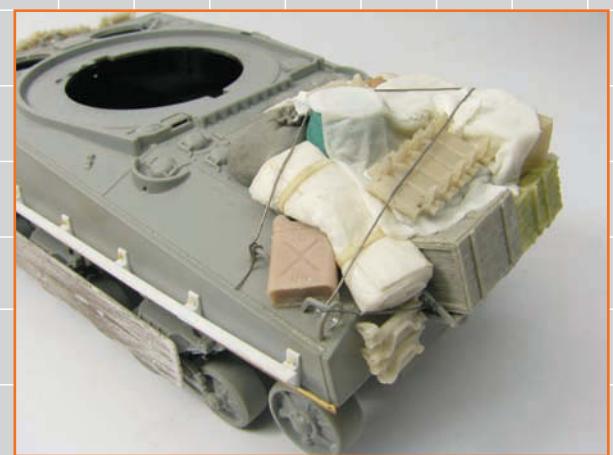
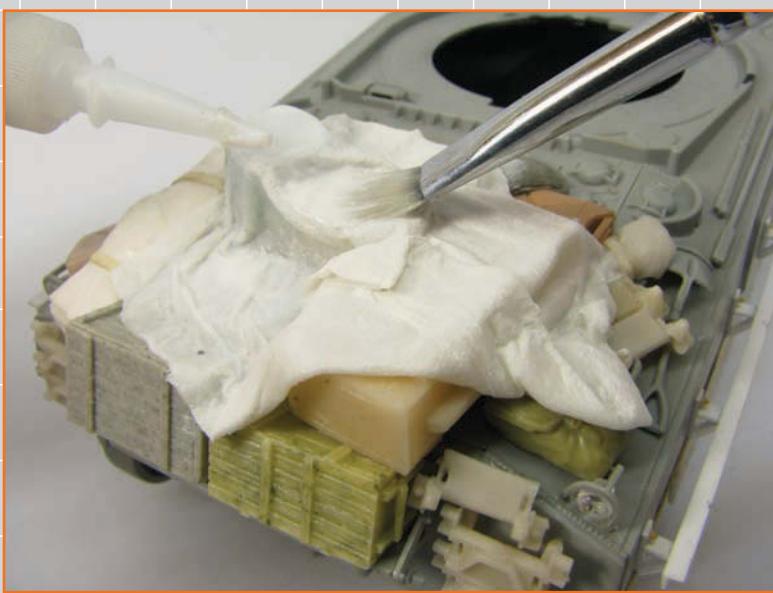
Two-part epoxy putty was used to magic up the welds connecting the armour plates.



Another very characteristic feature of the extra armour was track links welded to the hull and turret. I took some spare parts and casted them in resin to get the sufficient amount.



The stowage was created from some spare parts and resin bits taken from various sets. After the preliminary fitting I stuck them to the hull with CA glue.



Before the tarp dried, I laid a few additional details on it. These included a section of track links and cord made of tin wire. The tarp rolled up with straps was also formed from a glue-impregnated piece of tissue. The straps were cut from 1 mm masking tape.

The canvas tarp was formed from a piece of tissue impregnated with white glue.



The bags and sack were sculpted using two-part epoxy putty.



Before I began to paint, I applied Vallejo's earth texture to the lower sections of the kit to imitate dense mud. Here I used Brown Earth, but the colour isn't important at this stage as the mud will coloured later.



The vehicle is now ready for painting. Please note that the side skirts were only temporarily installed for the photos.



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Sherman Paint Shop

I always try to glue together as many parts of the kit as possible, but some pieces are usually left separate to make painting easier. Here I didn't glue the hatches, tracks, and side skirts to the kit. The turret and barrel also remained movable. The painting tools are another case. I try to use airbrush wherever possible in order to avoid brush painting.



I started by coating the lower sections of the tank as well as the stowage and extra armour with Tamiya XF-1 Black...



...then the vehicle was airbrushed with Tamiya XF-51 Khaki Drab.



Next I lightened the body and details, spraying them with a mixture of base colour and Tamiya XF-53 Neutral Grey. I was adding the latter paint to the mixture gradually to receive various tones. The mixture was also greatly diluted to allow applying transparent layers of the light tones.



The stowage was airbrushed with various shades of green and brown. The use of airbrush made painting the highlights and shadows much easier.



The track links were coated with a mixture of Tamiya's XF-1 Black and XF-9 Hull Red. The paints were mixed in a ratio of approximately 2:1. The same mixture was used to paint the DS tracks.



Some areas of the side skirts received the same base colour as the tank, while others were airbrushed with Tamiya's XF-9 Hull Red and XF-4 Yellow Green.



Then I applied AK-Interactive's Worn Effects fluid. When it dried, I added the camouflage using acrylic paints. To paint the white stars and other markings I cut some templates from Oramask stencil film. Next I made the scratches and paint chips just according to the instructions of AK-interactive's fluid. After dampening the surface I scratched the layers of paint with a toothpick, old toothbrush, and blunt-edged scalpel.



I also painted some rust here and there. In my opinion the Lifecolor's Dust & Rust set offers the best colours. I applied different shades of dense paint, using a piece of sponge.



After painting the tools and retouching the stowage the whole kit was given a layer of clear gloss coat.



Next I did the pin-wash using the AK-interactive's enamel washes. Dark Brown Wash for Green Vehicles was my choice for the whole vehicle, while the track links were treated with Track Wash.

The edges and details were dry-brushed with grey enamel. Afterwards I coated the kit with clear matt varnish.



I then wiped the edges of previously painted DS tracks with a very soft (8B) pencil. The imitation of sand on the outside of track links was done with Vallejo's Dark Earth texture. I applied it with a brush and removed the excess with a fingertip.



Although the upper parts of the tracks were to be hidden behind the side skirts, I had to use some wedges to sit them properly on the wheels. Then the tracks were glued with Tamiya Extra Thin Cement.

My Little Okinawa



The first step was to compose the scene. That allowed me to estimate the size of the base.

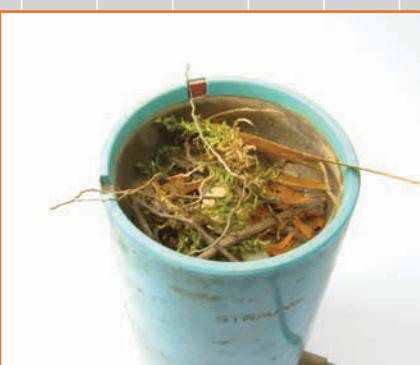


I cut the box sides from 3 mm thick balsa and glued them together, using a two-part epoxy adhesive. Next I cut a suitable piece of 3 cm thick styrodur plate which would fit the box.

Then I formed the ground from small pieces of styrodur foam. All the surface faults and gaps were filled with acrylic putty. After that I cut the sides of the frame to adjust them to the ground level.



The styrodur base was glued into the frame and coated with a layer of Vallejo's Grey Pumice.



Before I could get on with the vegetation, I had to prepare the ground surface. I started by adding a layer of leaf litter by grinding some pieces of dry leaves and moss in an old coffee grinder. The base was given a layer of Vallejo's Grey Pumice and Dark Earth texture, and then I poured the shredded drought over it.



The laser-cut leaves from Paper Nature were painted with various greens before cutting them from the sheet. Afterwards I attached them here and there, using white glue. Many of the leaves were additionally torn or bent. To imitate fallen dried leaves I retouched some of them with different shades of green, brown, and yellow paint, applied with a brush.



The paper plants from J's Work are printed in colour, so they don't need any painting. The only addition were the stems that I made of thin wire. After that I could simply "grow" plants in one of the corners of the base. Here and there I also placed a few single leaves whole or torn into smaller pieces. Next I poured some shredded drought over the ground again and fixed all with AK-interactive's Gravel and Sand Fixer.





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The Invaders



The figures from Evolution Miniatures' and The Bodis's sets fitted my scenario almost perfectly, so I made only minor modifications. One of the tank crewmen got a new resin head, while the marching Marine needed a slight neck twisting only. The latter action was easy to perform after heating up the resin.



The painting stage started by airbrushing the base colour over the figures. Next I sprayed some grey paint from above to lighten the folds and details.



Using mixtures of base paint with grey, yellow, black, and brown, I enhanced the shadows and uniforms seams. I also added a subtle wash with AK-interactive's Dark Brown enamel wash.



Now I had to paint the relatively large chunks of the bodies' flesh. Generally they were coloured according to Jaume Ortiz's formula, but I started in an unusual way by using the darkest shade as the base colour.

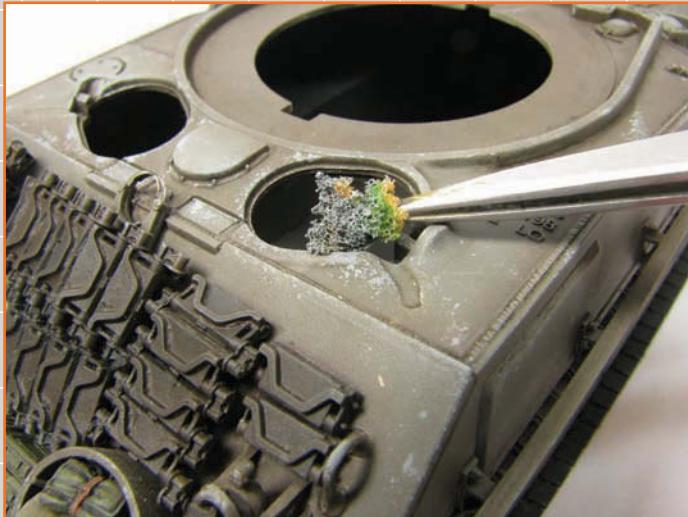
Next I applied transparent layers of Vallejo's Brown Sand and Skin Tone, using the glaze technique.

The combat gear was finished the same way as the uniforms. I used AK-interactive's Dark Brown enamel wash again to bring up the details.

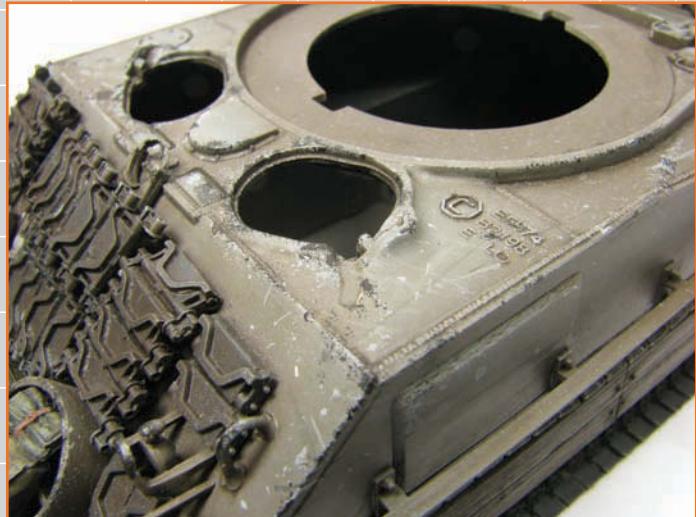


Painting the eyes, buttons, and other details was nonspectacular but definitely time-consuming. The final touch was to attach all parts painted separately like the .30 Browning machine gun, helmets, and ammo boxes. The lower part of the tank crewman standing in the turret was blackened to make it disappear in the shadow after mounting that figure in the tank.

Making a Veteran Tank



The weathering stage was started by adding some bright scratches with grey paint. First I applied them with a piece of sponge, hold with tweezers, and continued the work using a very fine brush.



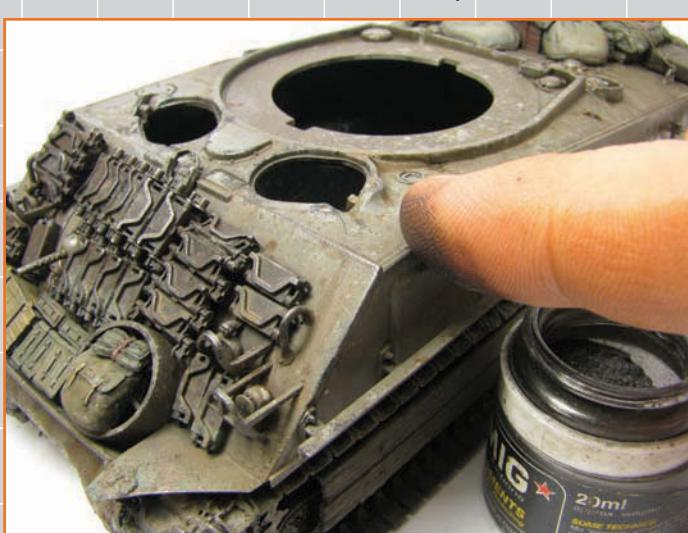
The dark paint chips were done the same way. I used Vallejo's Glossy Black for that purpose.



My next step was to dust and weather the surfaces of the tank. After dampening them with White Spirit I applied various AK-interactive's enamels by blowing them away from a brush and spreading randomly on the surfaces. Sometimes the excess of each enamel had been carefully removed with a cotton bud.



The oily streaks were created in a similar way. AK-interactive's Engine Oil and Fuel Stains worked perfectly for that purpose.



To achieve bare metal effect, I wiped the edges of the hull and track links with metallic pigment. A finger appears to be the best 'tool' for doing that.



Now I could attach the tank to the base. As the bond had to be strong, I chose dense CA glue.



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To harmonize the vehicle and base, the joint areas were airbrushed with AK-interactive's Engine Grime and Earth Effect. That required keeping a minimum air pressure.



Then I thought that the paint around the welds should be burnt a bit. It was a bit troublesome to do it at that stage, but better late than never, I guess. The effect was obtained by applying a few transparent layers of Lifecolor's Tensocrom Smoke.

A friend pointed out that the collar around the turret was missing some small vents. I decided that I won't drill them through as that wouldn't be visible anyway. I only drilled small recesses and painted some oily stains leaking from them. By the way I retouched other stains done previously.



I also decided to add some rust streaks and rainmarks, using the following AK-interactive's enamels: Summer Kurk Earth, Earth Effects, and Streaking Grime. All were applied just following the manufacturer's instructions. I was applying them with a fine brush and then spreading the enamels with a thicker brush, slightly dampened with White Spirit.

During the previous works the layer of pigments was damaged, so I had to reapply them. First I dampened the lower areas of side skirts with lighter fluid, adding some vertical streaks with a fine brush as well. Next I put a bit of pigment on the wet surface and fixed it with lighter fluid applied with a long bristle brush. Later I rubbed some dry pigments to tone down all the streaks and stains.



Here you can see the result of my efforts.

The final touch was to attach the figures to the base.



To strengthen the joins, I glued sections of thin copper wire to the shoes of figures, then coated the wires with dense CA adhesive, and finally stuck the figures to the ground.



This was an enjoyable project that gave me a chance to try out many different painting and weathering techniques.



Modelspec

Dragon 1:35 Kit No. 6462 USMC M4A2 Sherman PTO
Kit No. 6462

Accessories Used:

DML 6462 USMC M4A2 Sherman PTO
The Bodhi 35031 "Ciao Maria!"
Evolution Miniatures EM-35041 American Marines WW2
Paper Nature Jungle Set 1 & 2
J's Work PPA1006 & PPA1016 Tropical Jungle

Materials:

Plastruct & Evergreen styrene profiles and sheets
Tamiya acrylic enamels
Vallejo acrylics
Lifecolor's Dust & Rust Set
AK-Interactive weathering products
MIG pigments
Vallejo acrylic pastes
Styrodur foam
Balsa wood

- Good fit; simple build; high level of detail.
- Small gap in the rear part of the hull; understated cast texture.

Available from

Dragon kits are distributed in the UK by The Hobby Company Limited www.hobbyco.net

Rating ●●●●●●●●●●



Book Reviews

PANZER ACES

PROFILES

GUIDE TO CAMOUFLAGE AND INSIGNIA OF THE GERMAN TANKS 1939-1945

ACCION PRESS

Well, most would have heard of Panzer Aces Magazine, which has been around now for some time, and here we have a special edition that is based on profiles of the German Tanks from 1939-45, and I must say it is a very impressive publication indeed. It comes in a A4 high quality soft back format, with 71 semi-gloss colour pages just oozing with fantastic colour profile art work of German Tanks and emblems. Each Profile has a detailed description of colours, markings, where served etc., and is presented in both Spanish and English.

When opening the book you are immediately presented with the Index noting the following chapters: Camouflage colours 39-45 with some excellent colour photos from WWII; RAL-Farbregister 840R, with a brilliant colour chart of all the RAL colours and Numbers., Pz.Kpfw.I, Pz.Kpfw.II, Pz.Kpfw.III, Pz.Kpfw.IV, Beutpanzer, Emblems and finally a Bibliography, which is quite detailed.

It was a shame it didn't have some of the more heavy type Tanks, but then who is to say there's not another book coming!

Whether you are into military history, love profile art or are a modeller wanting some good reference, this publication will not let you down. It is top notch. I recommend this highly to all.

Highly Recommended.

Thanks to Accion Press www.euromodelismo.com and Creative Models Australia www.creativemodels.com.au for the sample.

Andrew Judson



PANZER ACES

ARMOUR MODELLING MAGAZINE NO 41

1:48 SPECIAL EDITION

ACCION PRESS

Here is another great Panzer Aces Magazine, this one being a special edition on modelling in 1:48 scale. It comes in the usual A4 soft cover with semi gloss paper, and 64 colour pages.

There are six armour subjects inside being the following: Jagdpanther Late version, Joseph Stalin JS-2, Panther Ausf. F, T-34/76, Grey extremes Tiger I and Panzer II, and Hetzer "Small Troublemaker".

In each of these articles, there are many high quality photos from detailed build shots to painting and weathering with easy to understand text explaining how everything was done, and I must say they are all top notch models built by well known modellers Diego Quijano, Luciano Rodriguez, Domingo Hernandez, Javier Soler, Jose Luis Lopez and Pat Johnston.

The last chapter is Modelling Lessons, Improving Trees, which is a great addition to all of you Diorama and Vignette builders, showing by some nice photos and well written text, how to build great looking trees to perfectly finish off that project.

This is another great publication, and whether you build 1:48 or 1:35 scales, it will give you some great inspiration for your next project. Grab a copy!

Highly Recommended.

Thanks to Accion Press www.euromodelismo.com and Creative Models Australia www.creativemodels.com.au for the sample.

Andrew Judson

FOCUS NO. 9. PANTHER AUSF. A

TEXT BY PASCAL DANJOU

PROFILES BY ERIC SCHWATZ

PUBLISHED BY EDITIONS DU BARBOTIN

Panther A is the ninth in Edition du Barbotin's Focus series covering important French and German tanks. The book is presented in a small format similar in size to Osprey titles, with soft covers and 50 glossy pages.

The book features bi-lingual text in two columns, with French to the left and English on the right. Captions are similarly organised.

As the title suggests, this volume focuses on the Panther Ausf. A. The first Chapter explains the development and operational history of the Panther including details of variants.

The bulk of the book, from pages 19 to 45, is made up of more than 130 full-colour walkaround photos of the two Panther As at the French "Musee des blindes de Samur", the Samur Tank Museum, plus images of a Jagdpanther, Bergepanther and Panther Ausf. G. The walkaround photos also point out the differences in detail between the Panther Ausf. A and Ausf. G. The photos are well reproduced and cover most of the nooks and crannies of the display vehicles. My only complaint is that there are no captions after the first two pages.

Five pages of colour profiles covering side, front, rear and top views of the Panther Ausf. A in 1:35 and 1:72 scales. The book is rounded out with a Bibliography on the inside back cover.

This is a handy and compact reference on the Panther Ausf. A.

Recommended.

Panther Ausf. A is available online from Minitracks www.minitracks.fr

Brett Green



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1/200 TRUMPETER

- 53080 Bismarck part 1 - lifeboats
- 53081 Bismarck part 2 - front area
- 53082 Bismarck part 3 - chain bar railings
- 53083 Bismarck part 4 - central area
- 53084 Bismarck part 5 - rear area
- 53085 Bismarck part 6 - catapult
- 53086 Bismarck part 7 - AA guns
- 53090 Bismarck part 8 - structural railings
- (53087 Kriegsmarine officers WWII S.A.)
- (53088 Kriegsmarine deck crew WWII)



WWW.EDUARD.COM

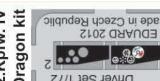
New figures and sets from CMK



F35 239
1/35
Wehrmacht
soldier
(Winter Clothes)
(1 fig.)



F35 241
1/35
German
SS soldier
(Hungary)
(1 fig.)



Pz.Kpfw.
IV
Driver's set for Dragon kit



CMK 1/72 Pz.Kpfw.IV
Driver's set for Dragon kit



F35 238
1/35
Wehrmacht
soldier
with Beret
(Winter)
(1 fig.)



F35 240
1/35
German
SS soldier
(Predator Battle
with Head)
(1 fig.)



2054
1/72
Driver's set for
Pz.Kpfw.
IV



F35 235
1/35
Wehrmacht
soldier
(Winter Coat)
(1 fig.)



F35 237
1/35
Wehrmacht
soldier
(Winter Clothes)
(1 fig.)



8043
1/48
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HANNANTS

PAPER PANZER

Jose Brito uses Trumpeter's 1:35 scale 12.8cm PAK 44 Waffenträger as a platform for a number of different painting and weathering techniques.

The new 12.8cm Pak 44 Waffenträger Krupp 1 from Trumpeter is a very good kit and may be transformed into a very nice model. The box is topped with inspiring artwork, and inside you will find several sprues in a top quality plastic. The detail is ultra fine and the fit is generally very good.

Besides the plastic sprues we are also be presented with two small photo-etch frets, a metal gun barrel, individual plastic track links, crisply printed decals and several copper ducts to detail the main gun.

The instructions are clear, concise and divided into 15 steps. Trumpeter also offers an A4 sheet with a hypothetical camouflage painting guide.

Trumpeter is offering another great kit with high quality at a good price. Besides, this is a very original subject and more than welcome by the modelling community, especially by the "Paper Panzers" legion of fans, myself included!





A few gaps needed attention during construction.



Deluxe Materials' Perfect Plastic Putty was used to fill the gaps, sanded smooth after the putty had thoroughly set.

CONSTRUCTION

Construction is very straightforward with only some minor gaps needing extra attention. These were easily filled using Deluxe Materials Perfect Plastic Putty. Being a water-based putty, we can mix it in water and change the consistency to reach the most difficult and recessed spots.

Once completely dry, the Deluxe Materials Perfect Plastic Putty may be easily sanded to remove the excess material.

The final result is very smooth and once painted will be completely invisible.

Tools from The Small Shop are a good investment and always very useful when it comes to working with photo-etched parts. These kind of tools can really simplify those tasks and contribute towards great results.

The small photo-etched parts were glued with the help of Deluxe Materials Rocket Hot and Rocket Rapid Glue solutions. Being ultra thin glue solutions, they are ideal to work using the capillary method.

All the major assemblies and small details were glued with the help of Deluxe Materials Plastic Magic Glue. For the best results I use their Pin Magic applicator. The Pin Magic applicator permits precise control, because the Plastic Magic Glue is ultra thin. Being so thin, is ideal to work as capillary. The main gun is full of small parts and a thin and controllable glue is essential.

The individual track links provided by Trumpeter are accurate and well detailed but they are no match for the Friulmodel tracks. With Friulmodel tracks we can get the natural and realistic sag. Why? Because we have something called gravity. All we have to do is place the assembled metal tracks in the model and let gravity do all the rest. The final result is attractive and realistic.

Assembling the Friulmodel tracks is a time consuming process. All the links must be individually prepared for assembly. Personally I like to drill all the holes where the metal pin will be ►



Photo-etched parts were used to enhance the gun and other elements of the build. Here, some add-on bands are being bent into shape before installation.



The bands are secured to the lovely turned metal barrel supplied in the kit.

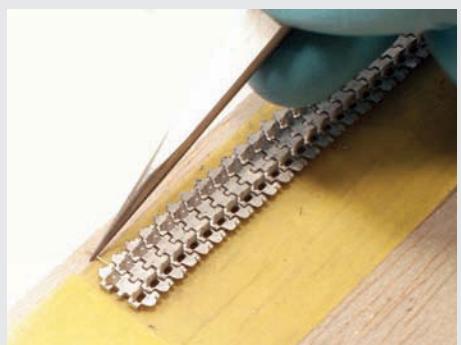
"My idea was to represent a vehicle that had been rushed from the factory straight to the front line...,"



Assembling the Friulmodel tracks is a time consuming process. All the holes for the metal pins must be drilled into the edges of the tracks.



The connecting pins are cut from wire.



Links are assembled in small segments and the metal pins are carefully inserted into the previously drilled holes.



Once all the segments are connected, all we have to do is apply small drops of glue to keep everything in place. In this case I used the Deluxe Materials Rocket Rapid Glue.



The excess wire from the metal pins is now cut off with a nail cutter.



Once the model fully assembled, all the extra work and details really improve the final look.

► introduced in advance of assembly.

Several links are assembled in small sections and the metal pins are introduced in the right spots (like real life in 1/1 tracks). Once all the segments are connected, all we have to do is apply small drops of glue to keep everything in place. In this case I used Deluxe Materials Rocket Rapid Glue.

With the help of a nail cutter,

we now cut the excess off the metal pins.

Once the model is fully assembled, all the extra work and details really improve the final look. The model looks much more detailed.

In the pictures is also possible to see how only a few photo-etch parts and scratch-built metal handles can really transform the model.

PAINTING

From the beginning I did not want a camouflaged vehicle. If the vehicle had entered service, the Germans would not have had time to camouflage it. My idea was therefore to depict a vehicle that had been rushed from the factory straight to the front line. I decided to paint the chassis and running gear in Dark Yellow and the main

gun in Red Primer.

The entire chassis was airbrushed in Vallejo Surface Primer 73604 German Dark Yellow. The main gun was airbrushed in Vallejo Surface Primer 73605 German Red Brown.

Vallejo primers dry very fast and turn the surface very smooth, ideal for airbrushing. They must be airbrushed in several thin layers in order to keep the surface detail.

Once the primer was dry, the main gun was airbrushed in Vallejo Model Air 71084 Fire Red. Like the primer, this was also airbrushed in several layers in order to keep the surface detail. To achieve the Zenith Transformation, the top parts of the main gun were airbrushed in Vallejo Model Air 71003 Scarlet Red.

The chassis and running gear received the same zenith transformation as the main gun. Once the primer was dry, the main gun was airbrushed in Vallejo Model Air 71027 Light Brown. To achieve the Zenith Transformation on the chassis, the top parts were airbrushed in Vallejo Model Air 71075 Sand.

WEATHERING AND FINISHING

Weathering started by applying several layers of Mig Productions' oils, well thinned in Mig Productions' Odourless Turpentine.

Besides several layers, I also used use several oil colours in order to get a more accurate and ►

Here, the metal tracks are test fitted to the running gear.





The gun is prepared with Vallejo's German Red Brown Surface Primer.

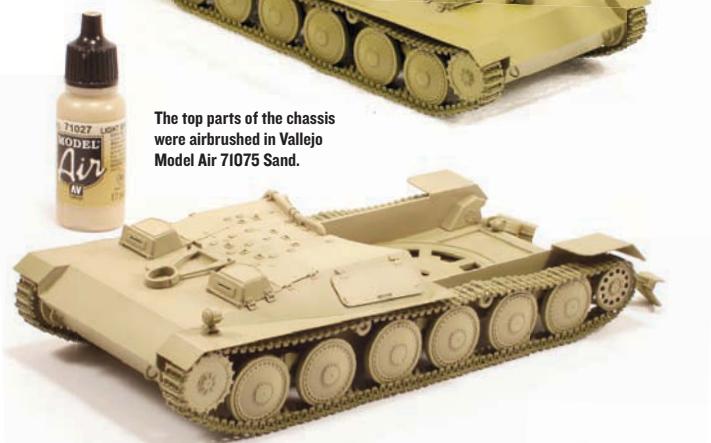


The contrast between the two colours lends even more interest to this unique vehicle.

Vallejo offers a range of acrylic primer colours. The body and running gear are primed in German Dark Yellow.



Once the primer was completely dry, the main gun was airbrushed in Vallejo Model Air 71084 Fire Red.



The top parts of the chassis were airbrushed in Vallejo Model Air 71075 Sand.



Weathering started by applying several layers of Mig Productions oils.



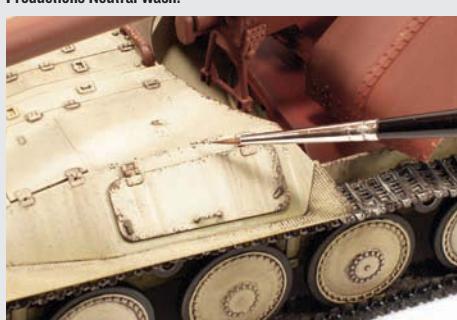
The vertical parts also received a well thinned layer of Mig Productions Neutral Wash.



Small details were picked out using Mig Productions Dark Wash.



Scratches were initially applied with a small sponge...



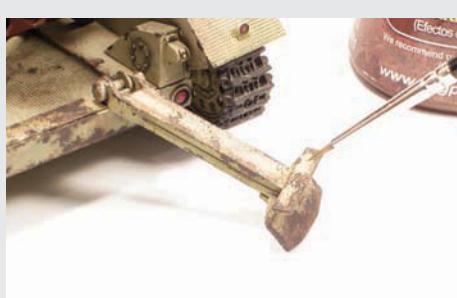
...with further detail added using a fine paint brush.



Mig Productions' oil rust colors being applied in the most heavily used spots, including the back spades.



Subtlety is the key here.



The process can be improved by applying MIG Productions Standard Rust Effects and Light Rust Effects as well.



Mig Productions oil buff colour was applied very well thinned over the tracks.



The new Mig Productions range of metal oil colours is ideal to represent all the metal exposed parts.



The dusty look was achieved in MIG Productions pigments.



The pigments were fixed in place with the help of MIG Productions Pigment Fixer and Thinner for Washes.



Mud can be achieved with the help of a small sponge and several Mig Productions pigments mixed in acrylic resin from the same company.



The finished result displays a realistic texture.



Mig Productions Oil and Grease Stain Mixture was applied in several spots.

► visually appealing finish.

The vertical parts also received a heavily thinned layer of Mig Productions' Neutral Wash. This wash will blend the previous wash work.

Small details were picked in Mig Productions Dark Wash, applied mostly in the recessed areas and around small details. If necessary, Mig Productions' wash solutions may be thinned in Mig Productions Thinner for Washes.

Scratches can be applied in the most logical and worn spots. The process started with the help of a small sponge and ended with a very fine brand new brush. Several colours from Vallejo Model Color range were used in order to achieve a more realistic look.

Mig Productions oil rust colours were applied in the most heavily worn areas including the back spades.

The process may be improved by applying MIG Productions Standard Rust Effects and Light Rust Effects with the help of a brand new fine brush.

Mig Productions' oil buff colour was applied very thinly over the tracks. Later the final track runs will be enhanced in pigments from the same brand.

The new Mig Productions range of metal oil colours is an excellent way to represent the metal exposed parts. In this case it was

applied in the old fashion way by dry brushing! The results are top class and very accurate.

The dusty look was achieved using MIG Productions pigments. Several colours must be used in order to obtain a more realistic look. In the meantime, we must take some care. The colours should be realistic and applied in the right spots. Also, we must not overdo this process otherwise our model will look inaccurate and unrealistic.

The pigments were fixed in place with the help of MIG Productions Pigment Fixer and Thinner for Washes. All we have to do is apply, by brush, several drops over the pigments and let them dry without touching them. During this process the model will turn very dark and it will appear that the pigments have disappeared, but once the fixer and thinner evaporates, the pigments will appear again and they will look very natural and realistic.

Mud may be added with the help of a small sponge and several Mig Productions pigments mixed in acrylic resin from the same company.

Mig Productions Oil and Grease Stain Mixture was applied in several spots.

All these simple techniques combined really improve the model and make it look attractive and authentic.

CONCLUSION

This was a really enjoyable project. The Trumpeter kit is just great and can be transformed into a even better replica with some extra work.

The "Paper Panzer" scenario is becoming very popular among modellers and thankfully, companies like Trumpeter are paying some attention to that.

Besides their German 12.8cm PAK 44 Waffenträger Krupp 1 is great value for money. Well done Trumpeter! ■

Modelspec

Trumpeter 1:35 German 12.8cm PAK 44 Waffenträger Krupp 1 Kit No. 05523

Materials and Paints used

Deluxe Materials glue solutions
Injected plastic
Metal parts
Vallejo primers and acrylics
MIG Productions pigments, oils, washes, filters and thinners
Graphite soft pencil

References

Several internet sites and forums

✓ Overall great detail.

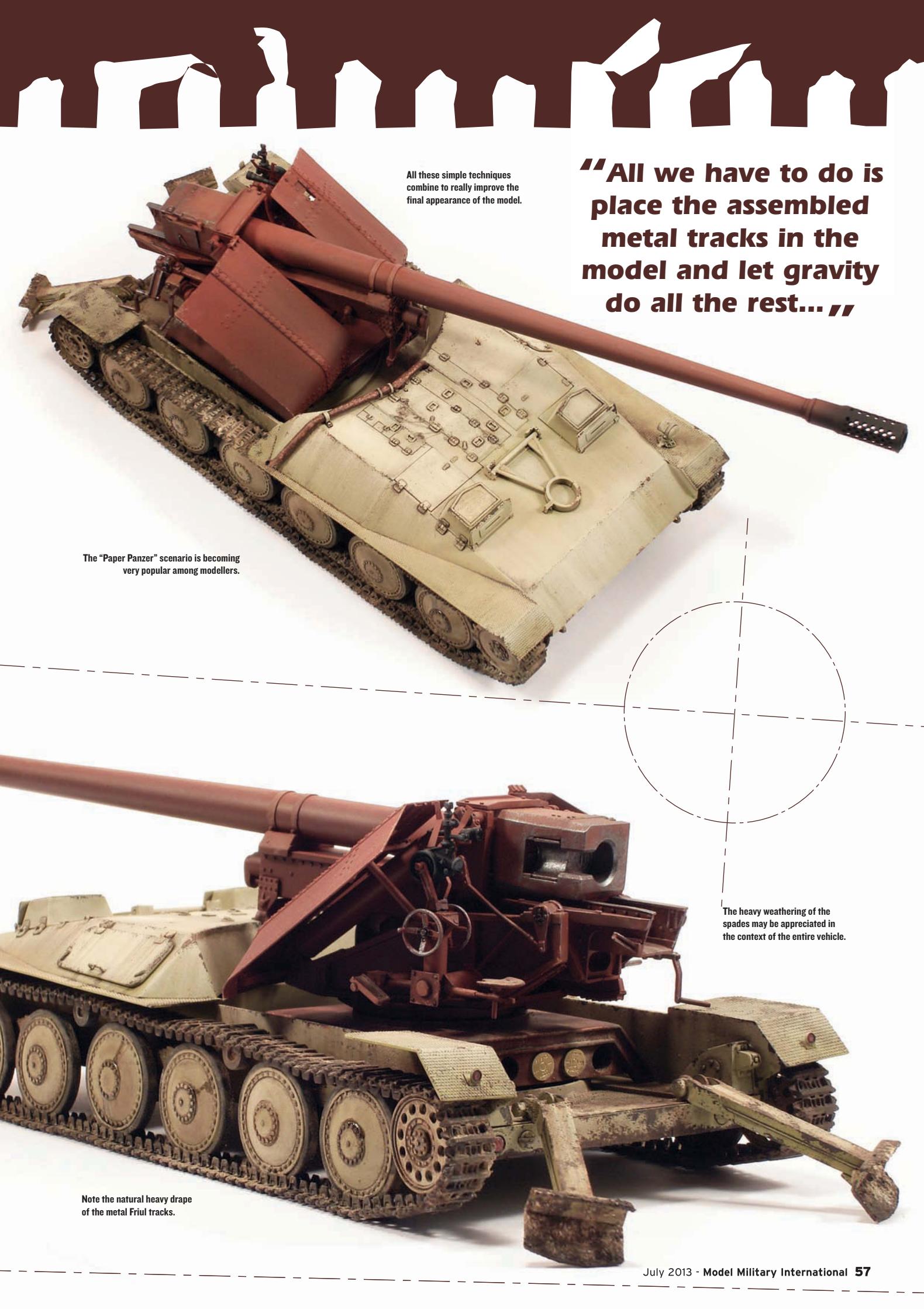
✗ Some minor fit problems.

Available from

Trumpeter kits are distributed in the UK by Pocketbond.

Rating ●●●●●●○○





All these simple techniques combine to really improve the final appearance of the model.

"All we have to do is place the assembled metal tracks in the model and let gravity do all the rest...,"

The "Paper Panzer" scenario is becoming very popular among modellers.

The heavy weathering of the spades may be appreciated in the context of the entire vehicle.

Note the natural heavy drape of the metal Friul tracks.

Incoming

HOBBYBOSS

1:35 SCALE

MENG SHI 1.5TON MILITARY LIGHT UTILITY VEHICLE-HARDTOP VERSION A

1/35. KIT NO: 82468.

Looking remarkably like the US built HMMWV (Humvee) the EQ2050 Meng Shi is a direct copy of the AM General vehicle with some minor differences notably the headlights and engine grill. After Chinese petroleum companies imported civilian models of the Humvee in the 1990s, Chinese automotive companies had the chance to examine them close up and began to build their own versions. The Dongfeng Motor Corporation (DFM) developed their version, the EQ2050, using imported parts and it made its debut at a car show in 2003 with the Shenyang Automotive Company (SAC) unveiling their model shortly after.

The People's Liberation Army of China (PLA) were looking for a new high-mobility utility vehicle around this time and the two companies began competing for the contract, DFM eventually winning with the EQ2050. 57 vehicles were taken for evaluation and it finally passed the PLA review in 2006.

The vehicle itself weighs in at 1.5 tons, has a five-speed gearbox and two-speed transfer box. It is powered either by a Cummins EQB 150-20 turbo diesel or an imported GM 6.5 litre V6 turbo charged diesel engine with a top road speed of 130kph (Around 80mph).

This new release by HobbyBoss comes in the usual sturdy box and inside you have six sprues and three main body parts (bonnet, roof and hull) moulded in a tan coloured styrene, clear styrene for the windows, an etch metal sheet, a small decal sheet, four vinyl tyres and a full colour A4 sheet for the (rather bland) colour scheme.

All components are well moulded although there is light flash and mould seams present on some parts. There are also mould pin marks in some areas such as the insides of the roof, front and rear wheel arches and rear door and while it's not a huge issue they may be visible especially when you think they're not and discovering they are after all when you've finished painting the model. Been there done that...

No engine is included but the chassis looks reasonably detailed for what you will be able to see plus the interior is busy enough with a decal used for the instrument panel. The cabin glazing is nice and clear with thin PVC included for the door windows. The tyres as stated before are vinyl and fortunately there is no trace of any mould seam lines around them, something that is very difficult to remove. The tread pattern is well defined and they certainly look chunky enough too.

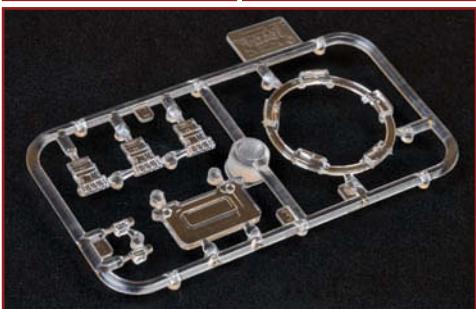
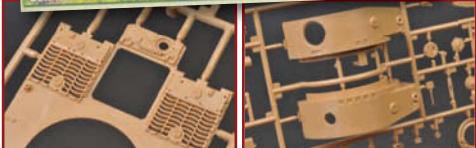
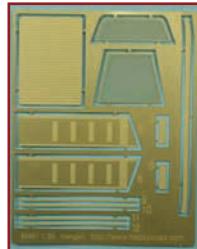
Colour schemes are limited to a rather dull all-over green PLA vehicle or a white PLA vehicle that was used on UN Security Force operations with all the colours quoted from Mr Hobby, Vallejo, Tamiya, Model Master and Humbrol.

This looks to be a nice little model and with only 14 stages for the assembly it should be a relatively quick build as HobbyBoss kits (in my experience anyway) are usually pretty painless to put together.

Information for the vehicle came from; <http://www.sinodefence.com/army/transport/eq2050.asp>
Recommended.

Thanks to Creative Models Limited for the sample www.creativemodels.co.uk

Andy King



ZVEZDA

1:35 SCALE

TIGER 1 AUSF E, EARLY PRODUCTION

KIT NO. 3646

There have been many model companies that have released kits of the Tiger Tank over the years, some good and some bad, and now Zvezda has joined the ranks with this offering of an early production Tiger I Ausf E.

I am not going to go into the accuracies or inaccuracies of this kit, but only talk about what's in the box and its overall quality.

To start with, when you open the box there are four large sprues, an upper hull and lower hull tub, a small sprue of clear parts, four lengths of flexible vinyl track sections, a decal sheet with markings for two vehicles and an eight page instruction sheet.

Total parts count is 335 plastic parts plus the tracks.

Looking at the parts, they appear well moulded and quite clean, requiring minimal cleanup, with nice crisp detail.

The clear parts are for vision blocks, including a clever ring to go into the cupola.

One big plus was the fact that the turret has a fairly complete interior, saving you from closing the hatches or putting in a figure - nice touch.

I have to admit that I was a little disappointed with the tracks, hoping for separate link rather than flexible type, though these are easy to replace with several brand names to choose from.

The decals are very simple with sets of crosses, and two sets of numbers, though I can't say how accurate these are to the colour chart as I can't read Russian. Again there are aftermarket companies that would probably be a better option instead of these.

The instructions appear to be well drawn and easy to understand, with my only gripe being that there is no description in English for the colours and markings, but that's nothing to major at all.

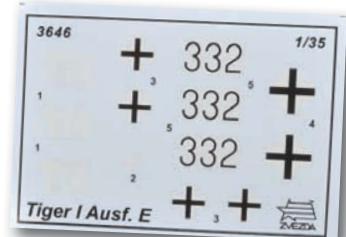
I think Zvezda has taken a big chance with this one but saying that, it is vastly superior in all respects compared to some of their earlier offerings, and this (and other recent releases) has put them back in the market, especially when comparing their price to others.

I am sure at the end of the day that once built and painted it will look the part, and there is no reason you can't add a splash of aftermarket to hop it up if that's what you desire.

I am sure many will be happy with this one and enjoy building it. I know I will be! Recommended.

Thanks to The Hobby Company Limited for the sample www.hobbyco.net

Andrew Judson



DEF. MODEL

1:35 SCALE

DEF WHEEL UPDATES

DEF Model has sent along some quite outstanding wheel updates for review this month. They are:

- Item DW30017: German Kfz 305 (early 6 hole) truck wheels. 7 wheels are included
- Item DW30018: US Jeep wheels (early type) kit. 5 wheels are included
- Item DW35042: Soviet BRDM2/3 wheels for the Trumpeter kit. 4 wheels are included
- Item DW35043: Toyota Hi Lux Civilian wheel set for the Meng pickup kits. 5 wheels are included
- Item DW35044: Toyota Hi Lux Mag wheel set for the Meng pickup kits. 5 wheels are included.

All of the wheels sets have the so called "sagged" effect (which in effect is a flat spot where the tyre touches the ground). The effect is both subtle and very well done.

The casting is flawless with no visible porosity or deforming in evidence. The casting plugs are quite small with some just breaking away with little or no effort. The tread pattern on all the wheels is the most outstanding aspect of these updates. All are different and all highly accurate. The Civilian Toyota Hi Lux wheels for example, have some of the finest radial tread pattern I have ever seen.

What's more, they represent a more common wheel than is offered in the Meng kit.

The Soviet BRDM set also includes a small photo etch fret for the front wheels. Every time I review DEF Model products I am left with a feeling that these guys know what they're doing. Their product is presented well, accurate and include wheel masks in each set. If you're after replacement wheels I really don't think you can go past these.

Highly Recommended.

Thanks to DEF Model for the samples www.defmodel.com

Luke Pitt



VALUE GEAR

1:35 SCALE

PACKS AND CRATES - VARIOUS SETS

Hailing from Ireland, Value Gear is a manufacturer specialising in creating unique sets of stowage for 1:35 scale military vehicles.

Value Gear's stated mission is to give your vehicles more variety. They do this by creating sets of resin stowage where no two pieces are the same. Value Gear has now released several more unique sets to supplement their growing range.

The latest sets under review are:

- USA Packs and Bags #1 (25 pieces of stowage)
- USA Packs and Bags #2 (25 pieces of stowage)
- TT10 - Tents and Tarps set 10 (22 pieces)
- WC5 - Wooden Crates #6 (16 crates)

As with their previous releases, every item in each of the sets is unique. Even if the style of pack or crate is the same, details such as straps, rope handles, width of timber and drape is different on each and every item.

Casting quality for all four sets meets the same high standard as the original batch of releases. Cleanup will be minimal too, as there is very little in the way of resin waste. Most of the packs are cast with a flat bottom, so you may want to hollow out the area underneath so that the piece of stowage does not float above hand holds, hinges and other structural elements on the deck of your tank or vehicle. Examples of painted packs and crates as found on Vale Gear's website may be seen here. Pretty impressive, and easy too!

Value Gear's packs and crates are a very handy and individual finishing touch for your 1:35 scale tanks, military vehicles, vignettes and dioramas.

Highly Recommended.

Thanks to Value Gear for the samples www.valuegardedetails.com

Brett Green

I:48 SCALE - FAR FROM PERFECT. THAT'S WHY I LIKE IT!

A friend of mine asked me the other day why I like 1:48 scale (as opposed to 1:35 scale) so much. After thinking about it I came to the conclusion that I like the scale because it's far from perfect.

I am the sort of modeller who looks for things to improve. I'll use anything I can lay my hands on, from photo etch to plastic card (and everything in between). I like things in scale and generally the only way that's going to happen is if you thin parts down and fabricate parts from scratch. To be honest, I quite enjoy the build process on any model. I like the process of putting things together and finding different build methods outside the normal process. I enjoy building replacement parts that may improve a particular kit and in some

cases come up with solutions that are workable. If you roughly split the process of building a model down to steps, I guess you would have to say the inspiration to buy the kit comes first, then the research followed by the build, then painting and decaling and lastly weathering and presentation. Out of all these processes I think my favourite part is the build. Given that I like to improve things in my own small way this is why 1:48 works for me. Generally 1:48 scale kits are by their very nature a little simpler than their 1:35 scale brethren and for me, that is the key. It gives me a chance to improve the kit somewhat with additions or indeed conversions. If we look at our 1:35 scale brothers, I think every known German armoured vehicle from the Second World War has been kitted and as a

result of this newer and better versions of the same kit are constantly being released. This has led to an increasing trend to just wait until the particular version you wish to build is released. This in itself is not a bad thing it just draws me away from the scale in some instances and pushes me more into 48th has more to offer in terms of improvement. In the words of modeller and special effect expert John Rosengrant (who I admire greatly) 'Modelling is in a sense, an extension of oneself' so I guess that must mean I'm a frustrated engineer or like things with a few faults.

How about you?

Until next time Luke Pitt



TORO MODELS

1:48 SCALE
POLISH INFANTRYMAN WITH MACHINE GUN
ITEM NO. 48F28

This new addition to the expanding range of figures from Toro Models is a gem. Consisting of just eight very well cast pieces, the figure breaks new ground in the way it is presented. I must confess I don't know a lot about Polish uniforms or indeed weapons used before the German invasion in 1939 but, as it turns out, I don't need to. All the reference I would need to build and paint this figure are included in the box.

What sets this figure apart is the inclusion of this reference material. Included is a small colour leaflet with 5 photos of the uniform depicted and worn by a re-enactor. On the reverse side are a history and colour guide of the machine gun included and an outline of the shoulder bars used to differentiate enlisted men from officers. On top of this is a small waterslide decal sheet for those very shoulder boards. The figure does not disappoint either with the sculpting and pose rendered to a very high standard. The all-important facial detail is superb and I particularly like the way the hand is cast onto the very finely rendered machine gun. Impressed is an understatement of my reaction when reviewing this figure. This is without a doubt a top-drawer release. Highly Recommended.

Thanks to Toro Model for the sample www.toro-model.com.pl
Luke Pitt



PLUS MODELS

1:48 SCALE
TATRA 57K KFZ 1 LIGHT
ITEM NO. 4040

The Tatra 57K was a Czech light military open vehicle produced from 1941–43 for the Wehrmacht by the Czech firm of Tatra Ringhoffer Werke A.G. in the town of Kopřivnice.

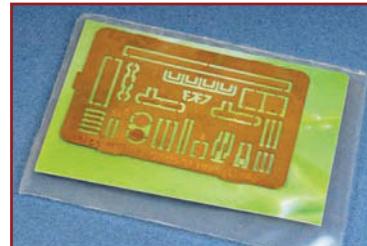
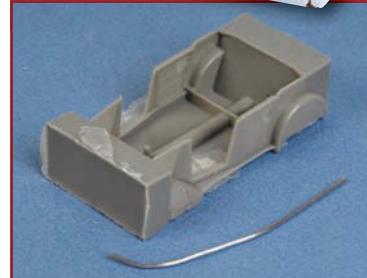
After the war, production continued and cars were supplied to the units of the Ministry of Interior and Czechoslovak People's Army troops. The total production of the Tatra 57K was 6000.

This Plus Models release has been around for quite a while but this is the first chance this column has had to review it. The kit is presented in a quite sturdy box with a completed model adorning the box top lid. 38 very well cast parts are included (with two being cast in cleat resin or the headlights) A 31 piece photo-etched fret is included together with a small waterslide decal sheet. A reasonable instruction booklet is included with seven logical build steps.

Generally most of the parts are mastered to a very high standard with the wheels in particular being very highly detailed. The open bodywork is cast remarkably well with the sidewalls being both well detailed and thin. The front radiator grill work however seems squashed when viewed from front on. A quick check on the web from both wartime and restored examples indicates the master builder has indeed rendered this incorrectly. Not only is it wrong in length and width it may prove difficult to correct given the intricate nature of this very prominent feature of the real vehicle. It is a great shame as, the rest of the vehicle is very well done.

Recommended.

Thanks to Plus Models for the sample www.plusmodel.cz
Luke Pitt





HAULER

PHOTO-ETCHED UPDATES

Hauler continues to serve 1:48 scale modellers with simple yet important updates for new release 1:48 armour kits. These two new sets are no exception:

HLX483333: Flakpanzer IV

Mobelwagen for the new Tamiya Kit

HLX48335: Land Rover snatch grills / mesh for the new Airfix kit

Both of these sets at first glance seem quite simple, but address most of the overly thick parts contained in the kits they are designed for. The Tamiya Flakpanzer update covers items including the mesh for the spent shells on the Flak 43, rear engine flaps, front and rear fender mud guards, most of the tool stowage brackets and various small additions to the Flak gun. I would have liked a gun shield and drop down panels for the vehicle itself to be included but these may appear as a separate set in the future?

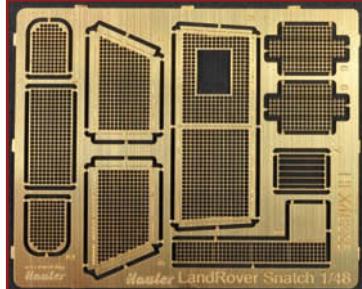
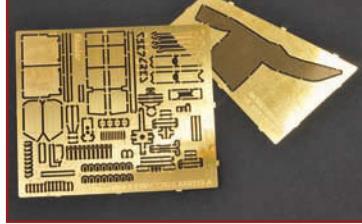
The Land Rover update includes all the mesh screens fitted to the Snatch version of the new Airfix kit and would greatly improve upon the decals included in that one. I am tempted to say if you embark on a build of this kit, this update is an absolute must. The photo-etch is clean and very well defined. Both sets include simple yet comprehensive instructions. You have to hand it to Hauler, almost all of their sets are simple yet effective.

Highly Recommended.

Thanks to Hauler for the samples

www.hauler.cz

Luke Pitt



UM

1:48 SCALE

SOVIET GAZ-MM-W TRUCK

ITEM NUMBER 512

The Ukrainian firm of UM continue to impress me with their commitment to 1:48 scale military miniatures. Their latest release is a simplified version of the single axle GAZ Truck.

The kit is delivered in a fairly flimsily box with an average illustration adorning the box top.

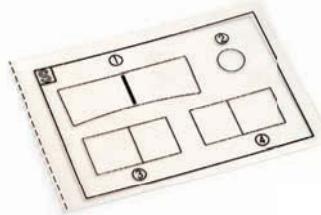
98 plastic parts, 6 vinyl tyres and one photo etch fret are included. The moulding of the majority of the plastic parts of the vehicle itself is generally good with no real flaws. However, the parts do exhibit a fair degree of flash. The parts breakdown consist of a separate chassis onto which most of the running gear is placed. The wheel hubs are moulded separately. The vinyl tyres are something of a let down as they have no tread detail on one side of the tyre itself. A clear acetate film is included for the windows and headlights. A small photo-etched fret is included as well.

Two green marking choices are provided (2 Russian and one German) with a small and well printed decal sheet included.

I was impressed with this kit. While not a state of the art techno marvel, it is well thought out and accurate. Recommended.

Thanks to Yury Vasin from UM for the sample unimodels@ukr.net

Luke Pitt



ARCHER FINE TRANSFERS

UNIFORM AND RANK PATCHES

BRITISH RANK PATCHES ITEM FG48020

US WWII RANK PATCHES ITEM FG48017

GERMAN HEER UNIFORM PATCHES ITEM 48048

Anybody who has ever attempted painting uniform and rank patches in 1:48 scale will tell you it is beyond the skill of the average modeller. Mere mortals like us can only look on in amazement at the skill these mystical painters have. Well brothers, help is at hand.

Some time ago, Archer released an assortment of patches that we can all use. Now before you roll your eyes and say yeah, but they're dry transfers and they would be difficult to firstly position and rub down on a small scale figure, Archer has addressed this including a small clear decal sheet that the transfers can be rubbed down on and then applied as a waterslide decal. Brilliant! Talk about a time saver!

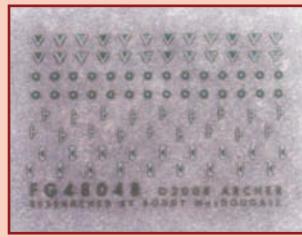
Three have been submitted for review and I must say, I'm impressed.

I have always found it very difficult to paint these on 1:48 so these are very welcome. The Wehrmacht eagles for example, are almost impossible to paint in this scale for all but a select few. Given the modest price these are going, they're an absolute must for any 1:48 scale figure painter.

Highly Recommended.

Thanks to Archer Fine Transfers for the samples www.archertransfers.com

Luke Pitt



48D14

German armoured cars in Poland

September 1939



Niemieckie samochody pancernne w kampanii wrzesniowej 1939
Produced & Distributed by: Tora Model - Tomasz Markowski
1/28 Sokołowska Str. 05-010 Konstancin-Jeziorna, POLAND, www.tora-model.pl

DECALS 1/48 SCALE

TORO-MODELS

1:48 SCALE

GERMAN ARMOURED CARS IN POLAND

ITEM NO. 48D14

This new decal sheet from Toro Models could be considered a companion to the already reviewed Polish Machine Gunner. What are included are six marking choices for German armoured cars used by the Germans during the invasion of Poland in 1939. All the vehicles are basically in Panzer Grey with one Sd.kfz. 232 (8 rad) depicted in a Panzer Grey base with a red brown camouflage colour. Four types of vehicles are included and they are the Sd.kfz. 231, 222, 232 (6 and 8 rad). The inclusion of the 6 rad is a bit of a mystery as I am unaware of any mainstream kit of this being available. Does Toro-Model know something we don't?

All in all this is a very worthwhile decal sheet.

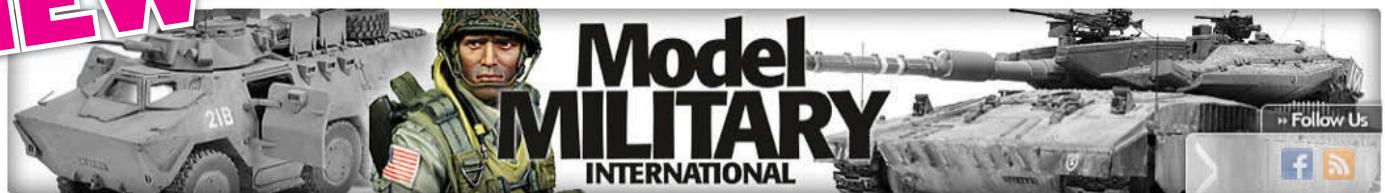
Recommended.

Thanks to Toro Models for the sample www.tora-model.com.pl

Luke Pitt



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HIGH ROLLER

Anthony Sheedy builds Meng's new Merkava III BAZ with Mine Roller System.



SMALL PACKAGES

Trumpeter's 1:35 scale 8.8 cm Pak 43 auf Leichte Waffentraeger (Ardelt) finished in a striking scheme by Thomas Morgan.



MAD MAX'S STATION WAGON

Kinetic's new RG31 is placed in an urban Middle East setting by Andrew Judson with accompanying reference by Stuart Ransley.

Next Issue

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Editorial enquiries;
Email; editor@modelmilitary.com

Advertising enquiries;
Tel; +44 (0)1525 222573
Email; colin@adhpublishing.com

Subscription enquiries;
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HAVE PIXIE SUIT, WILL TRAVEL!

Matt Wellhouser paints up Young Miniatures' 1:10 scale British Tanker.

FOR YOUR SAFETY

Don't forget, when using solvents such as glues, paints, thinners and cleaning agents, always ventilate your work area thoroughly and wear a face mask.

When using power tools, side cutters or any tool that can suddenly break or create high-speed airborne particles, wear approved eye protectors with hard, clear lenses. Please always model in safety!

...and much more!

Due to many influencing factors, we cannot guarantee the appearance of the above projects, but we'll try our best!





The Last Post..



The hull floor and the single large side skirt option for the left side. Don't bother looking for the right side skirt – it was not fitted!



Road wheels and drive sprockets.



The tracks are resin lengths and links.



Detail is good on both sides of the tracks. Some cleanup of the feather-like flash will be necessary. Some time in front of the television with a sharp knife and a fine file should do the trick.



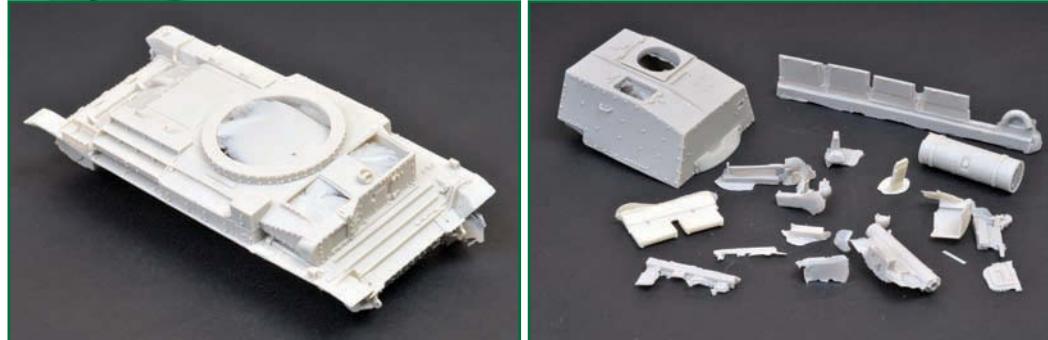
The Commander figure.



21 parts are supplied on the all-new photo-etched fret.



Two turned brass Besa gun barrels and a 2 pdr barrel are included.



The one-piece hull. Note the electrical cabling, hollowed-out hand holds and raised rivet detail cast in place.

RESIN HEAVEN



The turret plus some of the hull and turret fittings.

The Editor's wishes come true as newcomer Inside the Armour releases some welcome multimedia kits, including a 1:35 scale A10 Cruiser tank.

It might seem hard to believe considering the thundering avalanche of new releases over the last few years, but there are still some subjects that are not available as mainstream injection-moulded kits.

Although I have a half a shelf full of resin Accurate Armour kits that have been superseded by nice new injection-moulded releases – Cromwell, Valentines, Centaur and more – much of my wish list for some early WWII and oddball military subjects remains unanswered.

Several of these subjects were in Cromwell Models' range, but I hadn't had any luck getting hold of them.

I was therefore delighted to learn that Inside the Armour was planning to supplement their multimedia vehicle interiors with resin conversions and full kits based on Cromwell's back catalogue.

The first of these 1:35 scale full kits was the Covenanter Mk.I/II/IV. Kit No. 35045, released in early 2012 and a subject very high on my wish list.

More recently, Inside the Armour has also released a 1:35 scale full kit of the A10 Cruiser Tank, kit no. 35056.

The A10 served with the British in France with the BEF, in the UK, in Greece and in the Western Desert and this release may be

used to model an A10 from Greece, the UK or North Africa

The A10 is made up from 124 resin parts, which includes 26 new resin parts compared to the original Cromwell Models release, plus an all-new photo-etched fret with 21 parts.

The kit now includes three mudguard options, an optional fuel tank, all new suspension and turned metal barrels. I actually thought one of the large side mudguards was missing, but apparently this style was only fitted to the left side!

The kit also includes a resin Commander half figure for the turret hatch, who is sculpted with plenty of personality.

The resin is well cast. Many parts are surrounded by feather-like resin flash, but this will be quickly removed with a sharp blade and/or a stiff brush. Casting blocks generally do not look too daunting.

The hull is presented as a large single casting with a separate floor. Rivet detail (both on the hull and elsewhere) is even and impressive. Many of the smaller raised details – such as handholds – are cast onto the turret and hull, reducing the number of parts required.

The tracks are supplied as resin lengths. Separate links are supplied to wrap around the drive sprockets and idler wheels.

The turned metal 2 pdr and Besa gun barrels are lovely.

Instructions are supplied in PDF format on a disk. These kick off with some general advice for working with resin and photo-etched parts, followed by

28 steps, principally illustrations and large part numbers, guiding your way through construction. The different fittings for Greek, North African and Home Front A10s are very clearly pointed out in Steps 27 and 28.

No decals are included, and no camouflage options are suggested in the instruction sheet.

I am thrilled that Inside the Armour has started working their way through the Cromwell back catalogue. If you have never built a full resin kit, something like this would be a good place to start. Multimedia kits can be very satisfying to work on, and the rare subjects will be eye-catching on the competition tables or at club meetings.

I wonder what Inside the Armour's next full multimedia kit will be?

Inside the Armour's kits and accessories are available directly from their website. ■

Thanks to Inside the Armour for the sample
www.insidethearmour.com



1/6 M4A3(105) Howitzer Tank



• M4 105mm turret w/rotor shield fully detailed



• Commander's & loader's hatches can be assembled open/closed



• Finely rendered headlight and horn guards



• Highly detailed workable T48 tracks
w/EEC (Duckbills) included



• On-vehicle tools on engine deck are realistically molded



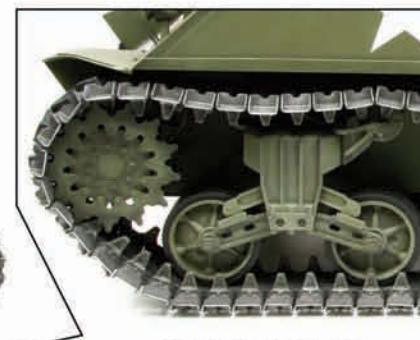
• Rear hull detail accurately produced



• Return rollers rendered
w/full detail



• Authentic M4A3(105) Howitzer Tank rendered w/details



• Bogies and drive sprockets
w/astonishing details

D75046

Dragon Kits are distributed in the UK by The Hobby Company Limited, Knowlhill, Milton Keynes, MK5 8PG

See the full Dragon range at www.hobbyco.net

Dragon models are available from all good model shops



From Foe to Friend

1/35 Military Miniature Series

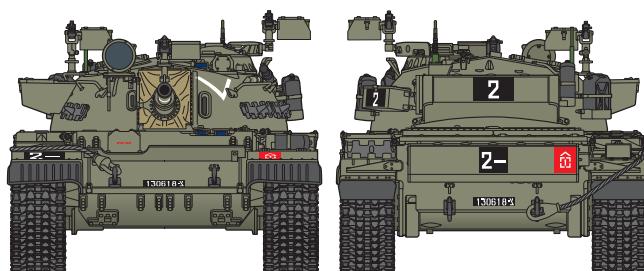
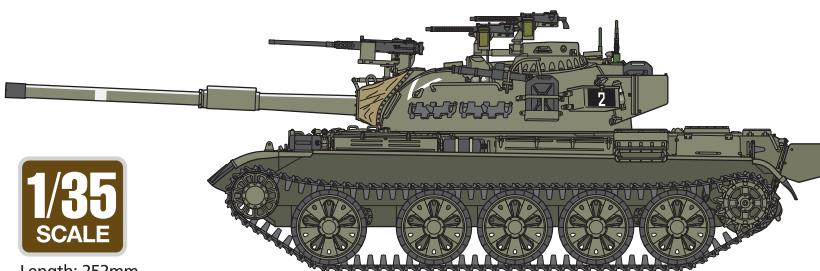
ISRAELI TANK TIRAN 5 (Item 35328)

Instrumental in turning back the Egyptian Army's offensive during the October 1973 Yom Kippur War, the Israeli Tiran 5 – named for the Straits of Tiran – was actually a modified version of T-55s captured in earlier conflicts with Arab nations. In addition to a new name, many of the Tiran 5s also received extensive modifications: a 105mm gun in place of the T-55's original gun, an M2 heavy machine gun on top of the gun mantlet, plus commander and loader machine guns, to name but a few. It proved a highly effective and long-serving vehicle, finally retiring from frontline action in the 1980s but continuing to serve in training exercises and also abroad, including in the Lebanese Civil War. This tank with an interesting history now joins the Tamiya 1/35 scale Military Miniatures line-up.



★Israeli-added machine guns are depicted in fine detail.
★Storage baskets on rear of the turret and hull are faithfully recreated.

★This excellent scale replica features the 105mm main gun and machine guns added to the turret.
★Faithfully recreates unique Tiran 5 details, such as water tanks and turret-side storage box installed to aid with identification of friendly forces. ★Torso figures for commander and loader (2 total) included. ★Contains decals to recreate white identification bands and unit markings.



**1/35
SCALE**

Length: 252mm

The Tiran 5's Tamiya 1/35 Scale Stablemates

How about displaying the Tiran 5 with the other examples of Israeli tanks in the 1/35 scale Military Miniatures series? The series also features the M51 with 105mm gun, M1 Super Sherman with 76mm gun, and the Merkava Main Battle Tank, which was Israel's first domestically-produced tank.



Israeli Tank M1 Super Sherman (Item 35322)



Israeli Tank M51 (Item 35323)



Israeli Merkava Main Battle Tank (Item 35127)



AIRCRAFT IN ACTION

GUNSLINGERS in Action AIRCRAFT NO. FOURTEEN



squadron/signal publications

Gunslingers in Action (SC)

Drendel. The story of the modern day gunfighter - Helicopter gunships in Vietnam. Covers the origins of the gunship, gunship tactics, and the various helicopters employed as gunships and scouts. 99 photos, 10 detail drawings, 9 color photos and paintings; 50 pages.

SS104

Bristol Blenheim in action



Aircraft Number 88
squadron/signal publications

Bristol Blenheim in Action (SC)

Mackay. The Bristol Blenheim opened WWII for RAF, flying the first operational sortie of a British bomber in WWII. Used in every theater where the British fought, the Blenheim would see action over Europe, the North African deserts and the jungles of Asia. Blenheim's were adapted to many roles not envisioned by its designers, photo reconnaissance, float plane, and night fighter. Over 101 photos, 40 detail drawings, 2 pages of scale drawings, 13 full color paintings; 50 pages.

SS1088

BE2 in action



Aircraft Number 123
squadron/signal publications

BE2 in Action (SC)

Cooksey. Used as fighters, reconnaissance aircraft, artillery spotters and bombers. Includes the BE2a, BE2b, BE2c, BE2d, BE2e, BE2f, BE2g, and BE12 variants. Over 100 photos, 40 detail drawings, 2 pages of scale drawings, 13 full-color drawings; 50 pages.

SS1123

HEINKEL He 112 in action



Aircraft Number 159
squadron/signal publications

Heinkel He 112 in Action (SC)

Bernad. Saw only limited action with the Luftwaffe. Used by the Condor Legion during the Spanish Civil War. Went on to see service with the Spanish, Rumanian, Hungarian and Japanese AFs. Includes A and B series variants, as well as sections on service with the Luftwaffe, Japan, Spain, Hungary, and Rumania. Also covers the rocket propulsion experiments with the He-112. Over 100 photos, 13 color drawings, numerous line drawings; 50 pages.

SS1159

Reggiane Fighters in action



Aircraft Number 177
squadron/signal publications

Reggiane Fighters in Action (SC)

Punka. Covers the WWII Italian fighter Re.2000/2001/2002 and 2005. Includes Re.2000 in Italian, Hungarian, and Swedish service, Re.2001, Re.2002, and Re.2005 in Italian service. Also covers Re.2000 service on the Eastern Front. Extensively illustrated with 100 b/w photos, line drawings, 10 full-color profiles and 3 cover paintings; 50 pages.

SS1177

B-2 Spirit in action



Aircraft Number 178
squadron/signal publications

B-2 Spirit in Action (SC)

Goodall. America's 1st operational bomber to employ a flying wing design and stealth characteristics has seen combat over Yugoslavia and Afghanistan. Includes the B-2 upgrades, Air Refueling, and B-2 weapons. Also covers Operation Allied Force and Operation Enduring Freedom. 100 b/w photos, numerous line drawings, 2 pages full color art/photos; 50 pages.

SS1178

Bone B-1 Lancer in action



Aircraft Number 179

squadron/signal publications

B-1 Lancer in Action (SC)

Drendel. The BONE - B-1 Lancer - is the USAF's latest swing-wing heavy bomber and has seen action over Iraq, Yugoslavia and Afghanistan. Includes the B-1A and B-1B variants. 100 b/w photos, black & white line art, full-color centerspread and 3 full color cover drawings; 50 pages.

SS1179

Junkers Ju 52 in action



Aircraft Number 186
squadron/signal publications

Junkers Ju 52 in Action (SC)

Stapfer, Mau and Punka. Includes the Single-Engine Ju 52, Ju 52/3m Pre Series, Ju 52/3m fe, Ju 52/3m ge, Ju 52/3m reo, Ju 52/3m ho, C-79, Ju 52/3m g3e, Ju 52/3m g4e, Ju 52/3m g5e/g6e, Ju 52/3m g7e to g12e, Ju 52/3m g14e, Ju 52/3m See, Ju 52/3m MS, CASA 352, and AAAC-1 Toucan variants. Also covers operations in the Spanish Civil War, Sino-Japanese War, as well as Ju 52/3ms in foreign service and postwar civil service. Over 90 b/w photos, numerous line drawings, 10 full color profiles, 3 cover paintings; 50 pages.

SS1186

Gloster Gladiator in action



Aircraft Number 187

squadron/signal publications

Gloster Gladiator in Action (SC)

Harrison. Covers operations in France, Norway, the Middle East, Malta, and Aden, as well as Gladiators in service with Latvia, Lithuania, Norway, Sweden, Belgium, China, Ireland, Greece, Egypt, Iraq, Portugal, Finland, Soviet Union, Australia, Free French, and South Africa. Illustrated with 100 b/w photos, line art, 10 full-color profiles, 3 cover drawings; 50 pages.

SS1187

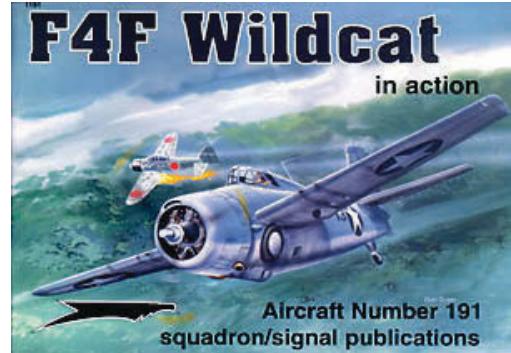


AIRCRAFT IN ACTION



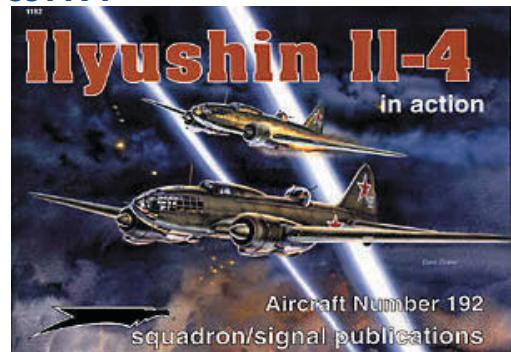
C-46 Commando In Action (SC)
Love. Includes the CW-20/C-55, C-46A, R5C-1, XC-46B, XC-46C, C-46D, C-46E, C-46F, and C-46G/XC-113 variants. Also covers operations in the Far East as well as Post War civil and military service. 100 b/w photos, line art, 10 full-color profiles, 3 cover drawings; 50 pages.

SS118



F4F Wildcat in Action (SC)
Dann. History of the F4F's development and operational service. Includes the XF4F-2, XF4F-3, F4F-3, XF4F-6, F4F-3A, F4F-3P, F4F-7, F4F-3S, XF4F-5, F4F-4, XF4F-4, XF4F-8, FM-1, FM-2, G-36A, Martlet Mk I, Martlet Mk II/G-36B, Martlet Mk III, Wildcat Mk IV (F4F-4B), Wildcat Mk V, and Wildcat Mk VI variants. Also covers Wildcat exports to Finland, Belgium, and Iran. 100 photos, 10 color profiles; 50 pages.

SS119



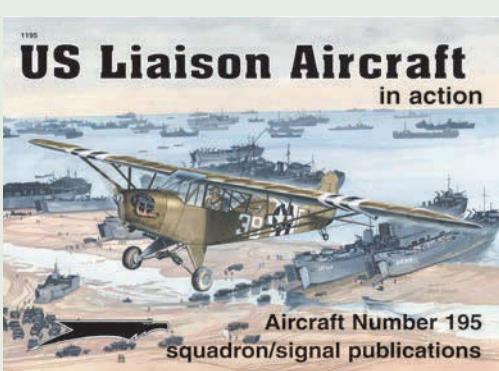
Ilyushin IL-4 in Action (SC)
Stapfer. Includes the DB-3S, DB-3B, DB-3T, DB-3TP, DB-3T (Experimental), Capsule DB-3, TsKB-30, DB-3M, TsKB-30 N-1, DB-3F, DB-3F, IL-4, IL-4TK, and IL-6 variants. Also covers the DB-3F in German and IL-4 in Finnish service. Approximately 90 photos, b/w line drawings, 10 color profiles; 50 pages.

SS1192



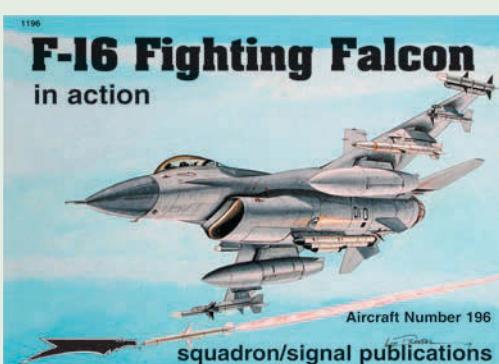
Tupolev SB in Action (SC)
Stapfer. It saw service in Spain and China and was the backbone of the Soviet bomber force when the Nazi's invaded the Soviet Union in 1941. Includes the ANT-40-1, SB-2-M-100, SB-2-M-100-A, Avia B-71, Avia B-71A, Avia B-71B, SB-2-M-100, SB-2-M-100-A (Modified), SB-2-M-103, SB-bis-3, PS-40, PS-41, PS-41 bis, SB-MMN, USB variants. Operations in Poland, Finland, Russo-German War, aircraft in foreign service. Over 100 photos, 38 line drawings, 10 color profiles; 50 pgs.

SS1194



US Liaison Aircraft in Action (SC)
Adcock. Covers L-1 thru L-5 during WW II. Includes the Stinson L-1 (O-49) Vigilant, Taylorcraft L-2 (O-57) Grasshopper, Aeronca L-3 (O-58) Grasshopper, Piper L-4 (O-59) Grasshopper, and the Stinson L-5 (O-62) Sentinel. Over 90 b/w photos. 10 full-color profiles; 50 pages.

SS1195



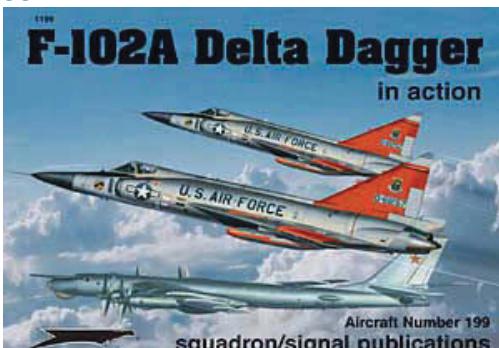
F-16 Falcon in Action (SC)
Drendel. Over 4000 F-16s have been produced since the mid 1970s. Includes the YF-16, F-16A/B, and F-16C/D variants. Also covers weapons, and other mission attachments, as well as experimental F-16s, and the listing of foreign operators. 100 photos, 27 line drawings, 7 color profiles; 50 pages.

SS1196



Sepecat Jaguar in Action (SC)
Ashley. The Sepecat Jaguar is an Anglo-French strike aircraft, having served with the British, French airforces, and several export customers. Includes Jaguar A/GR.1, trainer variants, British and French service, Naval trials, as well as service with Oman, Ecuador, India, and Nigeria. Also covers combat operations in Iraq, Senegal, Chad, South America, and the Balkans. 97 photos, 26 line drawings, 10 color profiles; 50 pages.

SS1197



F-102A Delta Dagger in Action (SC)
Davis. Supersonic interceptor aircraft that entered USAF service in 1956. Includes the YF-102, F-102A, XF-92A, YF-102A, F-102A, TF-102A, F-102B, F-102C, JF-102A, QF-102A, and PQM-102A/B variants. Also includes operational and Air Guard service. 100 photos, 35 line drawings, 10 color profiles; 50 pages.

SS1198



Fairey Firefly in Action (SC)
Harrison. British WWII Naval Fighter that superceded the Fairey Fulmar in the Fleet Air Arm, and remained in British Service into the mid 1950s. Includes the F.1, F.1A, FR.1, NF.1, T.1, TT.1, NF.2, T.2, F.3, T.3, FR.4, TT.4, NF.4, FR.5, NF.5, AS.5, T.5, TT.5, AS.6, TT.6, AS/T.7, T.7D, U.7, T.8, U.8, and U.9 variants. Also covers Firefly operations in the Pacific, Malaya, and Korea, as well as Fireflies in foreign service. 90 photos, 17 line drawings, 10 color profiles; 50 pages.

SS1200



AIRCRAFT IN ACTION



C-5 Galaxy In Action (SC)

Lippincott. This reprint includes 6 all-new pages packed with color photos and additional information about the Galaxy. Illustrated with 158 photos, 8 color profiles and b/w line drawings; 64 pages.

SS1201

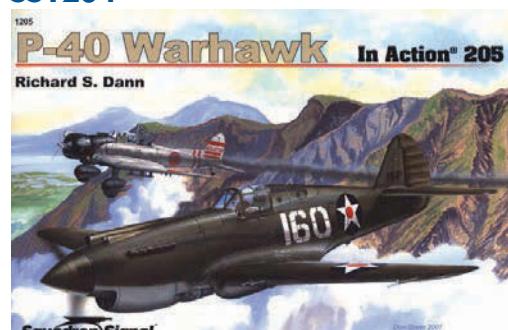
Early MiG Fighters



Early MiG Fighters in Action (SC)

Stapfer. Until the collapse of the Soviet Union in 1991, the MiG Design Bureau had a near monopoly on the supply of fighter aircraft to the Soviet Air Force and the nations within Moscow's sphere of influence. Updated with 7 pages of new material and illustrated with more than 100 photographs, plus 10 color profiles, detailed line drawings, and color covers; 56 pages.

SS1204



P-40 Warhawk in Action (SC)

Dann. British Commonwealth air forces gave the name Tomahawk to models equivalent to the P-40B/C and Kittyhawk to models equivalent to the P-40E and all later variants. The reissue features four new pages with color photographs and locations of Still Airworthy and On Display modern examples of the P-40. Illustrated with more than 100 photographs, 10 color profiles, line drawings; 64 pgs.

SS1205



F-14 Tomcat in Action (SC)

Drendel. The Tomcat attained speeds greater than Mach 2 with its twin afterburning turbofan engines. The versatile aircraft performed the role of fleet air defense, fighter escort, tactical air reconnaissance and air-to-surface strike fighter. This all-color In Action book is the perfect complement to the author's other book, "Tomcat!" This reissue features four new pages with color photographs and 'On Display' locations. The book features more than 100 color photos, line drawings, color paintings and seven color profiles; 56 all-color pages.

SS1206

P-47 Thunderbolt



P-47 Thunderbolt in Action (SC)

The P-47. The P-47 was the biggest, most heavily armed, and one of the fastest single engine fighters developed during World War II. Indeed, several P-47 experimental aircraft topped 507 mph, and several pilots claim to have flown the big fighter into transonic speed ranges. More than 100 photographs, line drawings and color profiles. 60 pages.

SS1208

P-51 Mustang



P-51 Mustang in Action (SC)

Davis. The P-51 Mustang was one of the most outstanding aircraft developed by the Allies during World War II. Dozens of period photographs from around the world illustrate the production, development, and evolution of the legendary Mustang. Illustrated with more than 130 photographs, plus color profiles and detailed line drawings; 64 pages.

SS1211

Me 262 In Action

Hans-Heiri Stapfer



Messerschmitt Me 262 in Action (SC)

Stapfer. The Me 262 not only enjoyed superior speed, but it also had deadly firepower: a total of (4) Mk.108 30 mm cannon were mounted in the nose of the fighter variant. Its operational service, however, was hampered by its temperamental engines and under-strength undercarriage. A total of 1,433 Me 262s were built during World War II. Covers the production and development of the Me 262 with more than 100 photographs, color profiles, and detailed line drawings; 52 pages.

SS1212

F/A-18 Hornet

Lou Drendel



F/A-18 Hornet Color in Action (SC)

Drendel. While the Super Hornet is a distant relation of the A-D Hornets, they all trace their roots to the loser of the lightweight fighter competition of the early 1970s, the Northrop YF-17. The twin-engine YF-17 had a definite advantage in this competition; on 2 May 1975, the Navy announced the MDD/Northrop design as the winner. More than 100 photographs, color profiles and detailed line drawings; 52 pages.

SS1214

C-141 Starlifter

John Burford



C-141 Starlifter in Action (SC)

Burford. The first C-141 rolled out of the Lockheed Plant in Georgia on 22 August 1963 to much fanfare. From there, in war and peace, the C-141's story has been lifted to the stars of aviation history. Illustrated with over 150 color and 8 b/w photographs, 3-view drawing, 3-scheme color camouflage art, and color profiles; 58 pages.

SS1215



AIRCRAFT IN ACTION

1216 F6F Hellcat In Action®

Jim Sullivan and Charles Scrivner



F6F Hellcat in Action (SC)

Sullivan. The heavily-armed fighters could pack armament including six wing-mounted .50 caliber machine guns, 20mm cannons, wing-mounted rockets and a bomb rack. This book takes detailed look at F6F Hellcat with 100 photographs, color profiles, detailed line drawings; 60 pages.

SS1216

1217 U.S. Navy UAVs

Ken Neubeck



US Navy UAVs in Action (SC)

Neubeck. UAV evolved extensively and saw extensive action during Operation Desert Storm - the war against Iraq in 1991. UAVs can stay aloft 2 or 3 days and ground operators can be rotated on a regular schedule; they also use less fuel thus reducing operating costs. Newer roles, such as bombing, are also being considered for UAVs, some of which will be equipped to carry a weapon pod or bomb rack.

SS1217

1218 A-10 Warthog

Lou Drendel



A-10 Warthog in Action (SC)

Drendel. Introduced in the mid-1970s, the A-10 has seen service in the Gulf War of 1990-1991; in the Balkans, later in the 1990s; in Afghanistan after 2001; and in the occupation of Iraq, beginning in the spring of 2003. Illustrated with more than 106 photographs, 11 full color paintings, 43 detail drawings and 2 pages of 3-view drawings; 56 pages.

SS1218

1220 F4U Corsair

Jim Sullivan

In Action®



Squadron Signal

F4U Corsair In Action (SC)

Sullivan. The Corsair was first conceived as a high-speed, high-altitude fighter for the Navy in 1938 when Chance Vought's design team drew up plans for a fighter with a 1,800 hp engine and a huge 13-foot propeller - the F4U's famous inverted gull wing was introduced to allow prop clearance. Illustrated with 169 photographs (53 in color) plus color profiles and detailed line drawings; 64 pages.

SS1220

1221 B-25 Mitchell

David Doyle

In Action®



Squadron Signal

B-25 Mitchell in Action (SC)

Doyle. The US supplied B-25s to the British Royal Air Force and to the Soviet Union, which flew them against the Nazis on the Eastern Front. Through period photographs and detailed information, the career of the Mitchell is covered from the experimental NA-40 prototype to the final production B-25J model. US Marine Corps PBJ versions are also chronicled. Illustrated with nearly 200 photographs, more than 80 of them rare period photos in original color, plus color profiles and detailed line drawings; 72 pages.

SS1221

1222 P-38 Lightning

David Doyle

In Action®



P-38 Lightning in Action (SC)

Doyle. The Lightning saw service in Europe, and it was after flying a P-38 to assess the progress of the Normandy Invasion in 1944, US Lt. Gen. Jimmy Doolittle referred to the Lightning as "the sweetest-flying plane in the sky." Illustrated with nearly 150 period photographs, a third of them rare original color photos, plus color profiles and detailed line drawings; 72 pages.

SS1222

1223 F-22 Raptor

Lou Drendel

In Action®



Squadron Signal

F-22 Raptor in Action (SC)

Drendel. This volume traces the history of the Raptor and describes in detail why it is likely to be the world's best fighter for years to come. With the onset of the Obama Administration, Raptor production was capped at 187 units. As challenges to US global leadership mount, however, the Raptor's capabilities will face increasing demand. Illustrated with 169 photographs plus color profiles and detailed line drawings; 56 pages.

SS1223

1224 F-84 Thunderjet

Larry Davis

In Action®



Squadron Signal

F-84 Thunderjet in Action (SC)

Davis. Thunderjets flew 86,408 missions during the conflict and took out 60 percent of the ground targets eliminated by American forces. In addition, 8 Soviet-built MiG fighters met their end thanks to F-84 pilots. After the Korean War, the F-84 took part in the Suez Crisis and the Berlin Crisis and stood alert during the first 2 decades of the Cold War. Illustrated with 164 photographs plus color profiles and detailed line drawings; 72 pages.

SS1224

1225 B-52G/H Stratofortress

Kenneth P. Katz

In Action®



Squadron Signal

B-52G/H Stratofortress in Action (SC)

Katz. This volume is packed with historical, and recent photographs of the B-52. As part of his research, the author flew on a B-52 training mission, and the flight report in this volume is the most detailed description of a B-52 mission ever published. Illustrated with color profiles, detailed line drawings and over 190 photographs; 88 pages.

SS10207



AIRCRAFT IN ACTION

B-17 Flying Fortress

David Doyle

In Action



Squadron Signal

B-17 Flying Fortress in Action (SC)

Doyle. Delivers a visual overview of the aircraft's development and use. During the 10 years in which it was produced, a total of 12,731 of the B-17 heavy bombers rolled off the assembly lines of Boeing, Douglas Aircraft, and Lockheed's subsidiary Vega. First flown in 1935, the aircraft was repeatedly modified, upgraded, and perfected in response to combat experience. Also highlights the roles played by individual aircraft and their crews, such as the 'Memphis Belle', which completed 25 missions over enemy territory; 'Stage Door Canteen', christened by Winston Churchill's daughter; and 'All American', which demonstrated the incredible toughness of the Flying Fortress by returning safely to base despite having its tail nearly sheared off by a Messerschmitt. An unmatched, lavishly illustrated account of one of the greatest warplanes of all time, a must have! Perfect binding. Illustrated with 200 vintage photographs, plus color profiles and detailed line drawings; 80 pages.

SS10219

TBF/TBM Avenger

David Doyle

In Action



Squadron Signal

TBF/TBM Avenger In Action (SC)

Doyle. Designed by Grumman as a replacement for the Douglas TBD Devastator, Avenger production began prior to the Japanese attack on Pearl Harbor, and it remained in US Navy service until October 1954. Demand for the large torpedo bomber was so strong that General Motor's newly-formed Eastern Aircraft Division was contracted as a second source for the Avenger, ultimately accounting for more than half of the total production. In addition to its obvious use as a torpedo bomber, the Avenger also served as a horizontal bomber, dropping conventional bombs, as well as mines and notably, depth charges, while operating in an antisubmarine role. Filled with 212 vintage photos, 29 of them in color, these are augmented by five color profiles and a like number of detailed line drawings; 80 pages.

SS10225

B-29 Superfortress

David Doyle

In Action



Squadron Signal

B-29 Superfortress In Action (SC)

Doyle. While most often remembered as the type of aircraft that dropped the first atomic bomb, and for its extensive use in bombing Japan during the latter stages of WWII, the B-29 also saw plenty of combat during the Korean War. Individual sections of the book explore the interior and armament of these bombers, as well as their production by Boeing, Martin, and Bell. Illustrated with 248 photographs, 90 of them in full color; 88 pages.

SS10227

B-24 Liberator

David Doyle

In Action



Squadron Signal

B-24 Liberator in Action (SC)

Doyle. Lavishly illustrated with almost 250 authentic wartime photos, including over 80 in vintage color, with supplemental drawings and color profiles, this totally new edition of this classic In Action title brings to life no less than 20 variants of these famed aircraft, as well as their crews. Experimental versions, classic bombers, freighters, tankers, reconnaissance birds - even the rare gunship version - are shown; 88 pages.

SS10228

F3D Skyknight

Alan Carey

In Action



Squadron Signal

F3D Skyknight in Action (SC)

Carey. This book chronicles the development and operational history of the Navy fighter from conception to duty in the Korean War, to service as a night interceptor in Vietnam. Packed with never before published color and b/w photographs covering the entire operational life. Illustrated with more than 196 photos and 10 line drawings; 80 pages.

SS10229

S-3 Viking

Brad Edward

In Action



Squadron Signal

S-3 Viking In Action (SC)

Eward. Over the years, it evolved into an outstanding surveillance and anti-surface platform, effective not only against submarines but also large and small surface ships. As its nearly 35-year career came to an end in 2009, the Viking also took on the carrier air wing organic tanking requirements, retiring with over half of its service life remaining. A total of 187 aircraft were built and served in 16 United States Navy squadrons. The Viking and its main variant, the highly-classified ES-3A Shadow electronic surveillance aircraft, played a key role in the Cold War and in the conflicts of the 1990s. The book is one of the few publications to tell the Viking story and is packed with photos and detailed line drawings, all depicting the aircraft's weapons, paint schemes, sensors and interior. It also provides an overview of some of the more significant variants that were studied, but never fully pursued, such as the Carrier On-Board Delivery (COD) and dedicated (KS) refueling variants. It also discusses the aircraft's role in Operation Desert Storm and how the lessons learned from that conflict impacted the Vikings' mission during the latter part of the 1990s and early 2000s. Illustrated with 186 photographs, line drawings, and numerous color profiles; 80 pages.

SS10230

COMING SOON



How to Build Revell's 1:32 Messerschmitt Bf109 G-6

The complete guide to building Revell's 1:32 Bf109 G-6 Messerschmitt written by Brett Green of Hyperscale and Model Military fame.

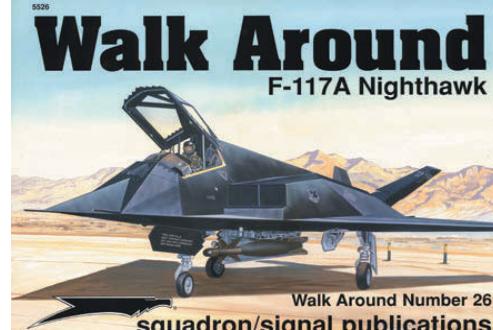
Three complete builds, Plus:

- Bf 109 G-6 Reference Gallery and colour profiles
- Step by Step – Tips and techniques for building the ultimate 1:32 Bf 109 G-6
- Bf 109 G-14 conversion
- Super detailing the cockpit and wheel wells
- Aftermarket decal and accessory summary

TBA



AIRCRAFT WALK AROUND



Walk Around Number 26
squadron/signal publications

F-117A Nighthawk Walk Around (SC)
Goodall. Losses of aircraft to radar directed missiles and anti-aircraft guns during the Vietnam War led the USAF to develop a strike aircraft less visible to radar. Also used in the Persian Gulf War and more recently in Yugoslavia. Details cockpits, engines, landing gear and weapons. 12 color profiles, 40 pages color; 80 pages.

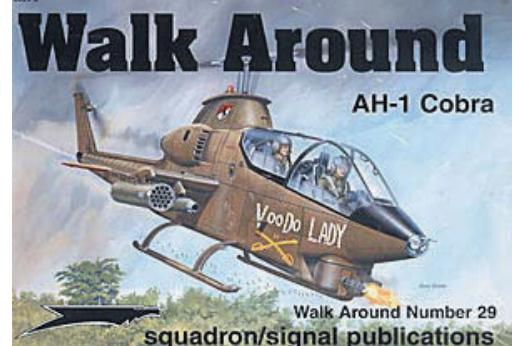
SS5526



Walk Around Number 28
squadron/signal publications

F-15 Eagle Walk Around (SC)
Drendel. The McDonnell Douglas (now Boeing) F-15 first entered service in 1974 and became the USAF's premier fighter of the late 20th and early 21st Centuries. Inside and out coverage of all variants with emphasis on F-15C and F-15E. Cockpits, radar, weapons, landing gear/wheel wells, and engines, etc.. Illustrated with 92 b/w and 109 color photos, 14 color drawings, 9 b/w drawings; 80 pages.

SS5528



Walk Around Number 29
squadron/signal publications

AH-1 Cobra Walk Around (SC)

Mutza. In this title the AH-1 is presented in meticulous detail. Includes cockpits, engines, weapons, airframe and more. Also covers US Marine Corps version. Illustrated with 112 b/w and 96 color photos, 12 color drawings, and 9 b/w drawings; 80 pages.

SS5529



Walk Around Number 34
squadron/signal publications

Bf 109E Walk Around (SC)

Stapfer. The Messerschmitt Bf 109E was the backbone of the Luftwaffe's fighter force from the Invasion of Poland, the Battle for France and the Low Countries, the Battle of Britain, and the Invasion of Russia. This title gives a comprehensive inside and out coverage of the Bf 109E and includes details of engines, cockpits, landing gear, airframe and more. Illustrated with over 100 b/w and over 100 color photos, 16 color drawings, 20 b/w drawings; 80 pages.

SS5534

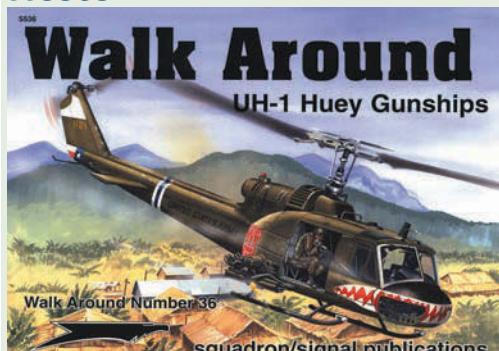


Walk Around Number 35
squadron/signal publications

EA-6B Prowler Walk Around (SC)

Michaels. The need for Electronic Warfare aircraft developed after WWII with the rapid development and proliferation of sophisticated guided weapons. This title gives inside and out coverage of fuselage, wings, tail, cockpits, engines, landing gear, and more. Illustrated with over 83 b/w and 118 color photos, 12 color drawings, 5 b/w drawings; 80 pages.

SS5535

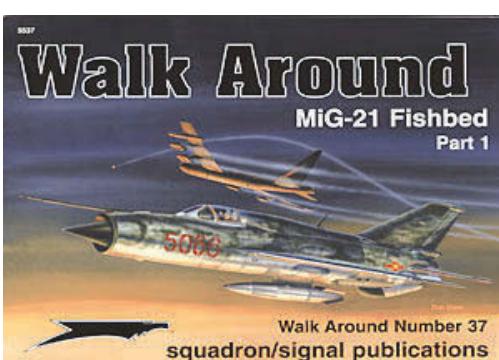


Walk Around Number 36
squadron/signal publications

UH-1 Huey Gunships Walk Around (SC)

Mutza. Not long after the UH-1s flew their first support roles (medevac, etc.) in Vietnam in 1962, armed version began to appear. This title gives inside and out coverage of the US Army's workhorse combat helicopter during the Vietnam War. Includes the UH-1's engines, rotors, airframe, and cockpit and cabin plus a wide variety of weapons. Illustrated with over 106 b/w and 97 color photos, 14 color drawings, 7 b/w drawings; 80 pages.

SS5536

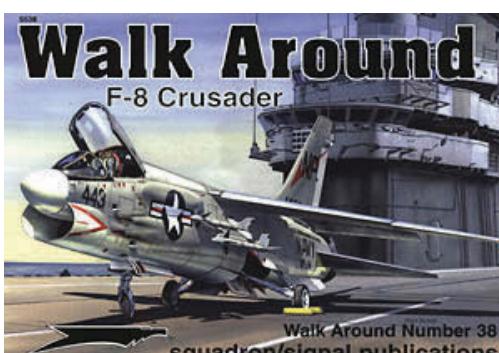


Walk Around Number 37
squadron/signal publications

MiG-21 Fishbed Walk Around Part 1 (SC)

Stapfer. The MiG-21 began production in 1959 and would continue in production until 1985. Also the longest production run of any combat aircraft. This title includes inside and out coverage of the MiG-21F-13 (Fishbed C), PF (Fishbed D), PFM Fishbed F, U (Mongol A), and UM (Mongol B) variants. Illustrated with over 114 b/w and 100 color photos, 12 color drawings, 11 b/w drawings; 80 pages.

SS5537

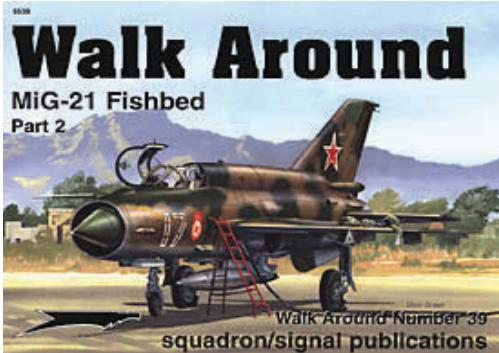


Walk Around Number 38
squadron/signal publications

F-8 Crusader Walk Around (SC)

Barthelmes. The F-8 entered service in 1957 and was to remain in US service until 1987, and in French service until 2000. In Vietnam the F-8s had the highest kill ratio of any USN aircraft, which earned it the title of "MiG Master". This title includes interior/exterior photo coverage of cockpits, engines, landing gear, airframes and weapons. Illustrated with over 137 b/w and 124 color photos, 12 color drawings, 8 b/w drawings; 80 pages.

SS5538



Walk Around Number 39
squadron/signal publications

MiG-21 Fishbed Walk Around Part 2 (SC)

Stapfer. The MiG-21 began production in 1959 and would continue in production until 1985, making it not only the most produced supersonic jet aircraft ever, but also the longest production run of any combat aircraft. With details on the airframes, cockpits, landing gear, engines and weapons. Illustrated with over 123 b/w and 97 color photos, 12 color drawings, 11 b/w drawings; 80 pages.

SS5539



AIRCRAFT WALK AROUND



MiG-15 Walk Around (SC)

Stapfer. This title includes inside and out coverage of the MiG-15 Fagot-A, MiG-15 Fagot-A (modified), MiG-15 Fagot-B (Early), MiG-15bis and Fagot-B (late) variants; with details on the airframes, cockpits, landing gear, engines and weapons. Illustrated with over 100 b/w and 124 color photos, 12 color drawings, and 27 b/w drawings; 80 pages.

SS5540



Me 262 Walk Around (SC)

Concise history of Messerschmitt's Schwalbe, the world's first operational turbojet fighter aircraft. An extensive visual description of the airframe - inside and out from every perspective; detail photos are of Me 262A-1 WNr 500071 as restored at the Deutsches Museum in Munich. Illustrated with more than 100 b/w photos, over 100 color photos, 12 full color profiles plus line drawings and scrap art; 80 pages.

SS5542



MiG-17 Walk Around (SC)

The MiG-17 'Fresco' followed the MiG-15 'Fagot' into Soviet AF service and evolved into a highly maneuverable, reliable and easy-to-maintain air combat fighter. Every detail of this Cold War fighter aircraft is illustrated with over 200 color and b/w photos, line drawings and 12 color profiles; 80 pgs.

SS5546



Sukhoi Su-27 Flanker Walk Around (SC)

A supersonic all-weather counter-air fighter, the Su-27 is equipped with a look-down/shoot-down weapons system and beyond-visual-range air-to-air missiles. Its range, thrust-to-weight ratio and maneuverability are all significant improvements over earlier Soviet fighters; one of the world's foremost combat aircraft and a potent adversary. Over 200 color and b/w photos, line drawings and 10 color profiles; 80 pages.

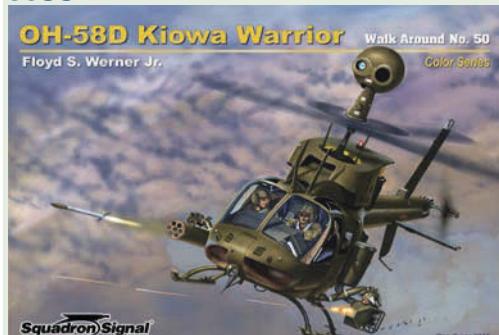
SS5547



OV-1 Mohawk All Walk Around (SC)

The Grumman OV-1 Mohawk was the first turboprop aircraft to enter into US Army service to fill the role of visual, photo and electronic reconnaissance. The Mohawk was retired from U.S. Army service in 1996. More than 150 photographs, line drawings, and 12 color profiles; 80 pages.

SS5549



OH-58D Kiowa Warrior Walk Around (SC)

Werner. The OH-58D was Bell's answer to the U.S. Army's request for a digital platform to aid new artillery. Originally unarmed as part of the Army Helicopter Improvement Program, the OH-58D was based on the OH-58C. The helicopter's success led to the decision to arm it with two hard points capable of holding either .50-caliber machine guns, seven-shot rocket pods, Air-to-Air Stingers, or Hellfire missiles. This book takes a detailed look at the Kiowa Warrior with more than 200 color photos, color profiles, and detailed line drawings; 80 pages.

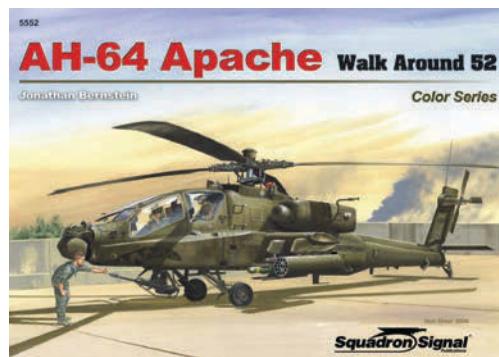
SS5550



Douglas A-26 Walk Around (SC)

Mesko. Only American combat aircraft to see combat service in WWII, Korea and Vietnam. Pilot and bombardier/navigator were positioned side-by-side, while a single gunner sat in the rear behind the bomb bay where he operated two remote controlled twin .50-cal machine gun turrets. Over 200 photographs, color profiles, line drawings; 80 pages.

SS5551



AH-64 Apache Walk Around (SC)

Bernstein. The AH-64 Apache, considered by many to be the world's premiere armed helicopter, has been in service with the US Army for more than 2 decades. Designed principally as an antitank helicopter to combat large Soviet armored formations invading Western Europe, the Apache has had a major renaissance in recent years. A detailed look illustrated with more than 200 color photographs, color profiles and detailed line drawings; 80 pages.

SS5552



E-2 Hawkeye Walk Around (SC)

Neubeck. The E-2 Hawkeye is the first U.S. Navy carrier-based aircraft designed specifically to fill the all-weather airborne early warning mission. In addition to war service, the versatile aircraft has been used by the US Coast Guard for patrolling the coastal areas as well as by law enforcement agencies for drug traffic interdiction. Takes a detailed look at the E-2 Hawkeye with more than 200 photographs, color profiles, and detailed line drawings; 80 pages.

SS5553



AIRCRAFT WALK AROUND

F-111 Aardvark

Ken Neubeck

Walk Around®
Color Series



F-111 Aardvark Walk Around (SC)

Neubeck. This aircraft's original design met 2 different mission roles for the US military. It served in Vietnam, Libya, and Operation Desert Storm. Currently, the Royal Australian Air Force continues to fly the C-model plane, and the aircraft has one of the best safety records in the Air Force inventory. Features 12 color profiles, 3-view illustration, line drawings, and over 200 color and 21 b/w photos. 80 pages.

SS5557

Macchi C.205 Veltro

Maurizio Di Terlizzi

Walk Around®
Color Series



Macchi C.205 Veltro Walk Around (SC)

Di Terlizzi. After the war, modified C.205s went on to serve the Royal Egyptian Air Force during its 1948 war with Israel. Close-up look at one of WWII's most aesthetically pleasing and innovative single-seat fighters! Illustrated with 225 photographs, color profiles, detailed line drawings; 80 pags.

SS5558

F-84F Thunderstreak

Ken Neubeck

Walk Around®
Color Series



F-84F Thunderstreak Walk Around (SC)

Neubeck. The F-84F remained in service with several European air forces for decades, with Greece only retiring its last Thunderstreak in 1984. Illustrated with more than 250 photographs, color art, and profiles; 80 pages.

SS5559

Consolidated PBY-5A Catalina

David Doyle

Walk Around®



Consolidated PBY-5A Catalina

Walk Around (SC) Doyle. The US Navy began taking deliveries of the PBY-5A in October 1941 and then placed orders for over 600 more following Pearl Harbor. During WWII, PBYs conducted anti-submarine warfare, patrol bombing, convoy escort, search-and-rescue operations, and cargo transport. Some PBY-5As went to the US Army and others to US Allies - Australia, Britain, Canada and the Free French forces. This book presents a comprehensive view of Catalina with 170 photographs, color profiles, detailed line drawings; 72 pags.

SS5560

F-89 Scorpion

Dennis M. Savage
Colonel, U.S. Army (Ret.)

Walk Around®



F-89 Scorpion Walk Around (SC)

Savage. Equipped with advanced radar for its time, the Scorpion guarded the Cold War skies over the northern frontiers of the United States, ready to confront Soviet circum polar nuclear bomber attack, while earning the distinction of being the 1st combat aircraft armed with nuclear air-to-air weapons (Genie rockets). Illustrated with 200 photographs, plus color profiles and detailed line drawings; 60 pages.

SS5561

Saab 35 Draken

Mikhail Putnikov

Walk Around®



Saab 35 Draken Walk Around (SC)

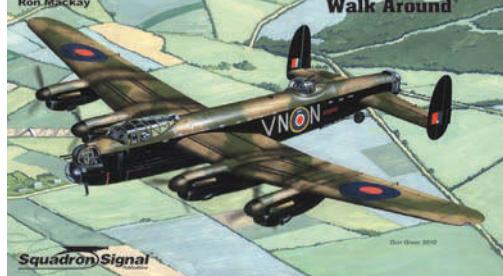
Putnikov. Sweden's most famous fighter, hailed by some as a 'fighter pilot's dream,' was developed and built by the Saab company between 1955 and 1974. Designed with the Cold War situation in mind, the Draken was specially tailored to Sweden's particular needs. Illustrated with 260 photographs, plus color profiles and detailed line drawings; 80 pages.

SS5562

Lancaster Bomber

Ron Mackay

Walk Around®



Lancaster Bomber Walk Around (SC)

Mackay. Known for its greenhouse cockpit, turret nose, twin tail, and 33-foot long bomb bay the Lancaster took part in Air Marshall Harris's 'Operation Gomorrah' in July 1943, in which Germany's industrial center of Hamburg was devastated by round-the-clock bombing raids. In the thick of the air war, the Lancasters also paid a high price - 3,249 were lost in action. Illustrated with 200 photographs, plus color profiles and detailed line drawings; 80 pages.

SS5563

F-102 Delta Dagger

Ken Neubeck

Walk Around®



F-102A Delta Dagger Walk Around (SC)

Neubeck. The Convair F-102A Delta Dagger was developed for the US Air Force as a supersonic interceptor at the onset of the Cold War. It featured a 60 degree swept delta wing to lessen drag coefficient and yield stability at very high altitudes. After retirement in the US, 152 of the planes were converted to high-speed, unmanned drones for use as test targets for newer fighters. More than 200 photographs, plus color profiles and detailed line drawings; 80 pages.

SS5564

F4U Corsair

David Doyle

Walk Around®



F4U Corsair Walk Around (SC)

Doyle. The F4U Corsair was arguably the best piston-engine carrier-borne fighter ever produced. Designed in 1938 and first flown in 1940, the Corsair remained in production until 1953, long after many of its contemporaries had been rendered obsolete. In addition to detailed line drawings and color profile illustrations, this volume is packed with over 200 photographs, 80 pages.

SS5565



AIRCRAFT WALK AROUND

B-17G Flying Fortress

David Doyle

Walk Around



Squadron Signal

B-17G Flying Fortress Walk Around (SC)

Doyle. The B-17 Flying Fortress is arguably the most famous US bomber of World War II, and perhaps all time. The vast majority of these aircraft were the G-model, accounting for 8,680 of the 12,730 Flying Fortresses built. Not surprisingly, with more than eight thousand examples being produced by three manufacturers, a number of changes were introduced in the course of the production run. This new addition to Squadron's Walk Around series takes the reader over, under, and through the B-17G, illustrating the subtle - and not so subtle - changes in gun mounts, turrets, crew positions, and other details. Ten aircraft were photographed in order to create this comprehensive look at the famed Flying Fortress - through more than 300 photos with detailed captions; 88 pages.

SS5567

A-4 Skyhawk

Lou Drendel

Walk Around



Squadron Signal

A-4 Skyhawk Walk Around (SC)

Drendel. The carrier-capable Douglas A-4 Skyhawk is one of the most successful modern combat aircraft. During the 25 years in which the A-4 was on the production line, 2,960 Skyhawks were built. A relatively light aircraft, with a maximum takeoff weight of 24,500 pounds and with a top speed exceeding 600 mph, the Skyhawk was operated not only by the US Navy and Marines but also by the air forces of Australia, New Zealand, Israel, Malaysia, Argentina, Singapore, Brazil, Indonesia, and Kuwait. Introduced in 1956, Skyhawks played major roles in the Vietnam War, the 1973 Arab-Israeli October War, and the Falklands/Malvinas Conflict in 1982. With a reputation for toughness and agility, Skyhawks remained a part of the American arsenal for nearly half a century - the U.S. Navy retired the A-4 as recently as 2003. Meanwhile, the battle-tested warrior continues to serve today other militaries around the world. Illustrated with 205 photographs, color profiles, and detailed line drawings; 80 pages.

SS5041

B-29 Superfortress

Dennis M. Savage,
Col., U.S. Army (Ret.)

Walk Around



Squadron Signal

B-29 Superfortress Walk Around (SC)

Savage. Equipped with pressurized cabins for high-altitude effectiveness, with an electronic fire-control system, and remote-controlled machine gun turrets, the B-29 Superfortress was the most advanced aircraft of WWII. A unique look at the plane that ushered in the nuclear age. Illustrated with over 210 photographs; 80 pages.

SS25054

KC-135 Stratotanker

Kenneth P. Katz

Walk Around



Squadron Signal

KC-135 Stratotanker Walk Around (SC)

Katz. Many air forces can conduct missions such as air superiority and ground attack, but only the US Air Force has truly global reach. This book contains the most detailed photographic documentation of the KC-135 inside and out that has ever been published, as well as color profiles of the KC-135R in the markings of every major USAF command that has operated that variant. Illustrated with 240 photographs, detailed line drawings and color profiles; 88 pages.

SS25066

F9F Cougar

Ken Neubeck

Walk Around



Squadron Signal

F9F Cougar Walk Around (SC)

Neubeck. Photographs in this volume illustrate in detail the differences between the various Cougar models, making use of over a dozen display aircraft located in museums across the United States as well as one Cougar on display in Argentina. Grounded in solid historical research, features historical images from the photo archives of both the U.S. Navy and Grumman, includes rare photos of F9F Cougar in its final days, serving as a target drone for later generations.

SS25068

B-26 Marauder

David Doyle

Walk Around



Squadron Signal

B-26 Marauder Walk Around (SC)

Doyle. Exclusive photos illustrate the rarely seen inner workings and outer features of the B-26G, with additional coverage of the B-26, B-26B, and B-26C. The B-26 Marauder saw service in Europe, the Mediterranean and the Pacific, including use by the United States, the Free French, the Royal Air Force and the South African Air Force. More than 220 photographs, plus numerous detailed line drawings and color profiles.

SS25069

Heinkel He 111

Ron Mackay

Walk Around



Squadron Signal

Heinkel He 111 Walk Around (SC)

Mackay. This iconic warplane had its origins as a cutting-edge civil airliner in the mid-1930s. Although produced in large numbers and exported to many countries before and during the war, few examples survive today. This volume features detailed photographic images of the He 111P-1 restored and preserved in Norway, and the He 111H-20 on display in the RAF museum. Illustrated with 228 photos, detailed line drawings and color profiles; 88 pages.

SS25070

B-25 Mitchell

David Doyle

Walk Around



Squadron Signal

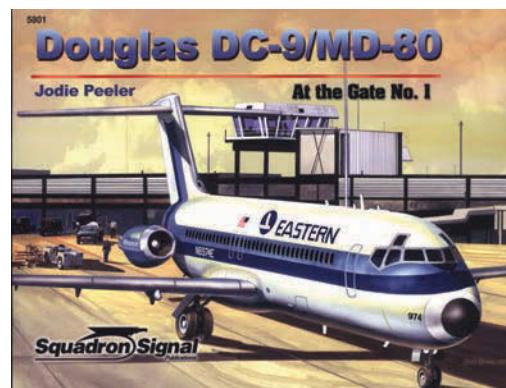
B-25 Mitchell Walk Around (SC)

Doyle. Profusely illustrated, enhancing color photographs, taken both on the ground and in the air, four vintage black-and-white images and 14 line drawings further illustrate details, while five color renderings of aircraft and markings provide a glimpse at the nature of the crews. Illustrated with more than 200 photographs; 80 pages.

SS25071

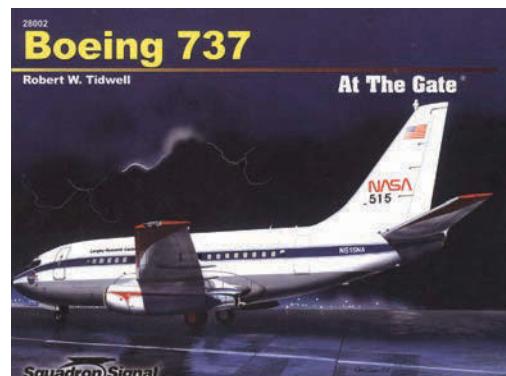


AT THE GATE SERIES



Douglas DC-9/MD-80 at the Gate (SC) Peeler. The most successful of all the twin-jet transports, the DC-9 brought jet travel to the general public. The DC-9 and its descendants have transported countless people to big cities and tiny towns, serving communities that had never before known jet travel. Military versions have served in the aeromedical evacuation, logistics and VIP transport roles. Traces the development and many users of this important aircraft in 200 color and b/w photos, line drawings and color profiles; 80 pages.

SS5801



Boeing 737 At The Gate (SC) Tidwell. Few commercial aircraft have enjoyed a production run that spans more than four decades and service in nearly every nation on Earth. The Boeing 737 has such a track record. Takes the reader on a journey through the continuing story of the 737 from the first aircraft to roll off the production line in the 1960s, to the very latest airframes being delivered to major airlines today. The book also offers the reader a look at some of the most interesting 737 liveries as well as parts of the aircraft that few people get to see. Also covered are business jets, cargo carriers, and military versions of the 737 that are less familiar even to the thousands of air travelers who have flown aboard this legendary Boeing liner. Illustrated with over 220 photographs; 96 pages.

SS28002

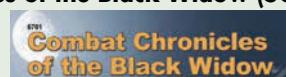
COMBAT CHRONICLES

Combat Chronicles of the Black Widow (SC)

Thompson.

In this volume we hear from the crews who rode the Black Widow into battle all over the world. The outbreak of war in Europe left no room for doubt that the United States needed quickly to come up with a specialized night fighter to confront the totally new face of air combat. Illustrated with 152 photographs; 112 pages.

SS6701



B-29 Superfortress Combat Chronicles (SC)

Hilton. In early 1945, the 40th BG moved to newly-liberated Tinian from which they took part in the final chapter of WWII - the aerial assault on the Japanese home islands.

Introduces you to fellow veterans of the 40th who relate their no-less extraordinary experiences - ditching in the Bay of Bengal,

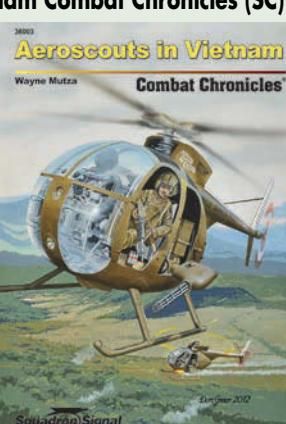
lost in the Siberian Taiga, downed behind enemy lines in China, taken prisoner after bailing out over Tokyo. Personal accounts from the men who served on the front lines of the air war in the Pacific, a unique primary historical source and a truly exciting read. Illustrated with over 100 photographs; 120 pages.

SS36002

Aeroscouts in Vietnam Combat Chronicles (SC)

Mutza. The Army developed new tactical doctrine using helicopters - the airmobile concept - which was based largely on air cavalry units. Such units were descendants of the US Cavalry, which had operated as light, horse-mounted infantry. Packed with more than 30 action packed, often hair raising first-hand accounts of helicopter scout combat in Vietnam, this latest addition takes you into the thick of the action. Besides being exciting reading, these personal recollections by dozens of the fighters themselves provide invaluable, primary source historical coverage of one of America's epic conflicts as experienced by frontline helicopter scouts. Illustrated with 160 photographs; 136 pgs

SS36003



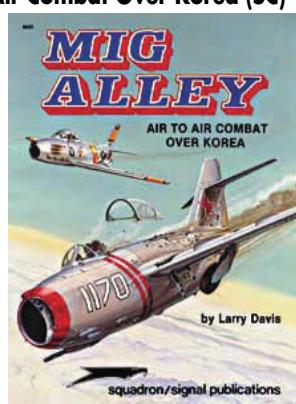
AIRCRAFT SPECIALS

MiG Alley - Air to Air Combat Over Korea (SC)

Davis. A pictorial record of the American pilots and their aircraft who ran up a 10 to 1 victory ratio over the MiG-15. In all, 976 "North Korean" aircraft were shot down in the three years of the Korean War. This title gives a history of the Air War in Korea, as well as the pilots own words of what it was like to fly the F-86

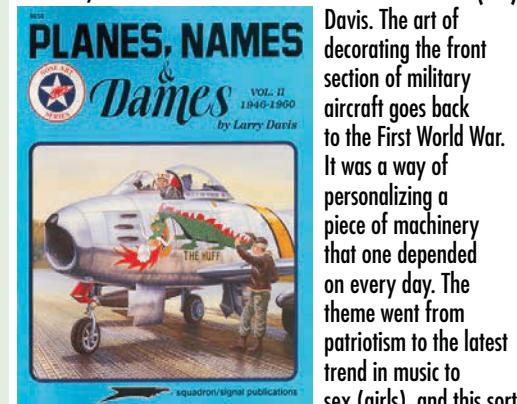
Sabre (also F-82, F-51D, F9F-3, B-29, & F3D-2) against North Korean and Soviet pilots. Illustrated with 145 photos, 7 maps, 28 drawings, 40 full color drawings; 80 pgs.

SS6020



squadron/signal publications

Planes, Names & Dames Volume 2: Korea (SC)



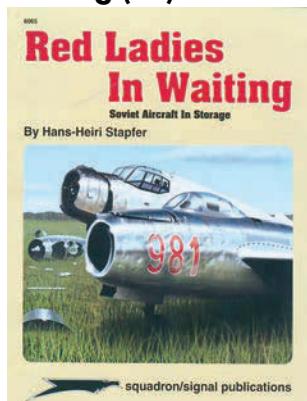
Davis. The art of decorating the front section of military aircraft goes back to the First World War. It was a way of personalizing a piece of machinery that one depended on every day. The theme went from patriotism to the latest trend in music to sex (girls), and this sort

SS6058

Red Ladies in Waiting (SC)

Stapfer. This title is considered by the author as a retrospective of the early 1990s, the ex-Soviet Union and Eastern Bloc. The former Soviet Union had a number of facilities to store and display aircraft, including complexes at Khodinka, Ramenskoye and Tushino. Includes coverage of facilities in Hungary and former East Germany, as well as US aircraft that found their way into Soviet/Eastern Bloc service. Illustrated with 213 b/w and 56 color photos; 64 pages.

SS6065



squadron/signal publications



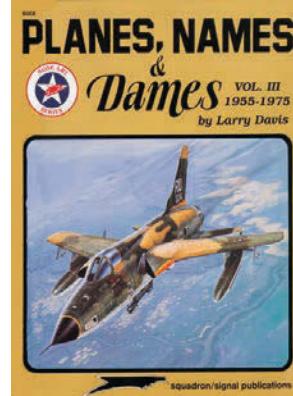
AIRCRAFT SPECIALS

Arab Air Forces Post WWII (SC)

Tullis. Traces the history of the air forces of the Arab nations through the turbulent years after WWII and their many conflicts with Israel as well as many clashes amongst themselves. Includes Algeria, Bahrain, Egypt, Iraq, Jordan, Lebanon, Libya, Mauritania, Morocco, Oman, Qatar, Saudi Arabia, Sudan, Syria, Tunisia, United Arab Emirates, Yemen Arab Republic, and the Peoples Democratic Republic of Yemen. Illustrated with 204 b/w, 28 color photos, 12 color drawings, 2 maps; 64 pgs.

SS6066

Planes, Names & Dames Volume 3 (SC)



Davis. The art of decorating the front section of military aircraft goes back to the First World War. It was a way of personalizing a piece of machinery that one depended on every day. The theme went from patriotism to the latest trend in music to sex (girls), and this sort of art appeared on

every type of aircraft. This third volume of military aircraft nose art covers the Vietnam period (1955-1975). Includes aircraft types such as F-86, F-104, A-26K, UH-1, OV-10, A-1J Skyraider, F-4E, F-105D, F-8E, and many more. Includes some art from foreign airforces. Illustrated with 259 b/w and 91 color photos; 80 pages.

SS6068

And Kill MiGs (SC)

Drendel. Revised edition. USN, USAF, and USMC aerial combat over North Vietnam, 1981 Sixth Fleet shoot down of Libyan fighters, and Operation Desert Storm. Includes pilots' own descriptions of engagements, with lists of USAF and USN MiG killers in Vietnam, as well as section on the North Vietnamese

Enemy with listing of the MiGs' kills. Illustrated with 168 b/w and 19 color photos, 46 color drawings, 1 map, 1 b/w drawing; 104 pages.

SS6072

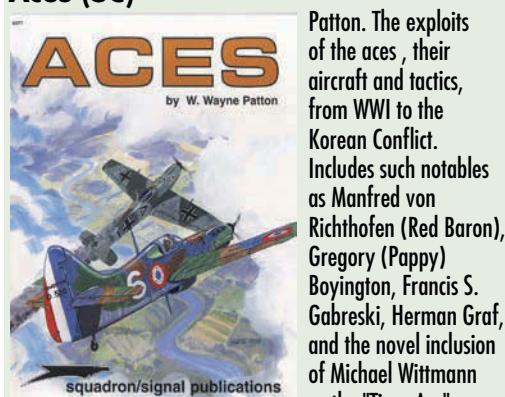
Pride of Seattle (SC)

The story of the first 300 Boeing B-17Fs. A fascinating book revealing the varied fates of the machines and their crews, diverse, often tragic, sometimes inspiring but always interesting. Illustrated with 120 b/w period photos, 32 full color profiles; 64 pages.

SS6074



Aces (SC)



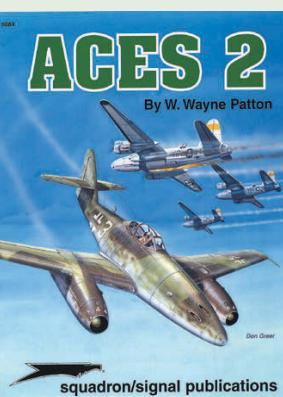
and many more. Illustrated with 20 b/w photos, 116 color drawings, and 48 b/w drawings; 64 pages.

SS6077

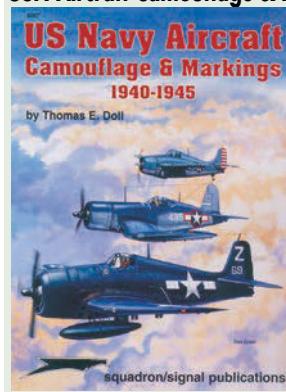
Aces 2 (SC)

Patton. The exploits of air aces - pilots who shot down five or more enemy aircraft - have fascinated the world since WWI. Successful aces combined the killer instinct, mastery of their aircraft and of air combat tactics, and the ability rapidly adjust to changes in their situation. Chronicles 29 aces from WWI, WWII and the '67 Arab-Israeli war. 40 b/w drawings, 30 pages color profiles, 64 pages

SS6084



USN Aircraft Camouflage & Markings 1940-45 (SC)



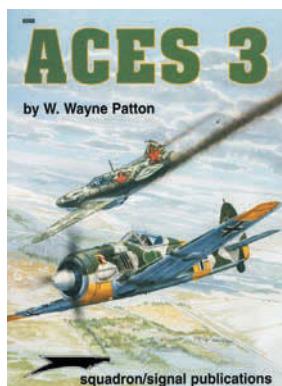
Doll. A highly detailed and informative look at the variations of camouflage schemes and insignias used by the US Navy during WWII. Includes both carrier and land based aircraft. Illustrated with 150 b/w and 6 color photos, 40 color drawings; 64 pages.

SS6087

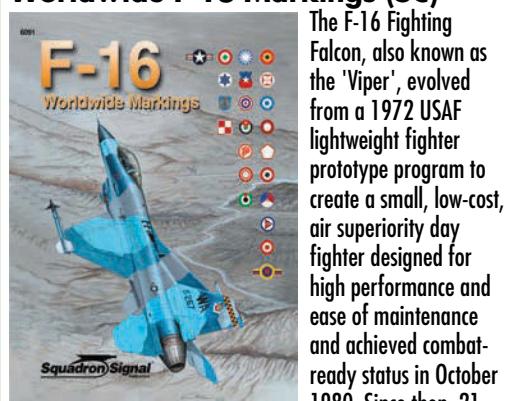
Aces 3 (SC)

Patton. This title gives the exploits of the aces, their aircraft and tactics, from WWI to the War in Vietnam. The stories of 59 air aces since WWI, plus one tank ace of WWII. Includes such notables as Joseph M. McConnell, Richard "Dick" Bong, Randy Cunningham, and Ernst Udet. Illustrated with 139 color drawings, and 62 b/w drawings; 64 pages.

SS6088



Worldwide F-16 Markings (SC)



foreign nations including Belgium, Denmark, Turkey, Egypt and Israel have the F-16, making it the most popular fighter in the world. The varied national insignia, squadron markings and camouflage of these international F-16s are depicted in full color. Over 200 color photos; 64 pgs.

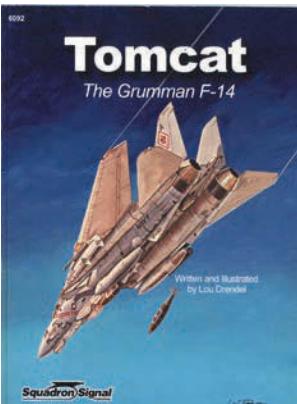
SS6091

Tomcat! (SC)

The F-14 Tomcat is a supersonic, twin-engine, variable sweep wing, two-place fighter designed to attack and destroy enemy aircraft at night and in all weather conditions. The F-14 can track up to 24 targets simultaneously with its advanced weapons control system and attack six with Phoenix

AIM-54A missiles while continuing to scan the airspace. Armament also includes a mix of other air intercept missiles, rockets, and bombs. The Grumman F-14 Tomcat has retired after over 30 years of service. It was the final member of a family of Grumman cats which began almost seventy years ago. This book presents a personal narrative of the testing and operational use of the Tomcat. More than 150 color photographs, color paintings, and color profiles; 64 pages.

SS6092



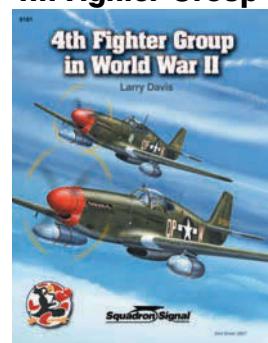


AIRCRAFT SPECIALS 31st Fighter Group USAAF WWII (SC)

The USAAF's 31st Fighter Group had an outstanding record, flying Spitfires and Mustangs in the 8th, 12th and 15th Air Forces. Entering the war as the first American Fighter Group to participate in the European Theater of Operations, the 31st FG ended the war as the top scoring Allied fighter group in the Mediterranean Theater of Operations and the fifth highest overall for the USAAF with 570 1/2 confirmed aerial victories. Approximately 200 b/w photos, line drawings and 40 color profiles; 80 pages.

SS6180

4th Fighter Group in WWII (SC)



The 4th initially operated with Spitfires but changed to P-47s and finally to P-51s. The first 8th AF fighter group to penetrate German air space and first to engage enemy aircraft over Paris and Berlin, the 4th claimed 1000 kills, the highest of any USAAF fighter group in WWII. Over 250 b/w

photos, line drawings, 10 color profiles; 80 pages.

SS6181

Hawker Hunter in Color (SC)

Robinson. The Hawker Hunter was designed in 1948 as a RAF replacement for the Gloster Meteor. The Hunter served with the RAF in the 1950s and 1960s, and has served with nearly twenty foreign air forces. This title covers every RAF Squadron to fly the Hawker Hunter. Illustrated with 54 b/w and 6 color photos, 200 color drawings; 32 pages.

SS6506

USAF Europe Volume 2 in Color (SC)



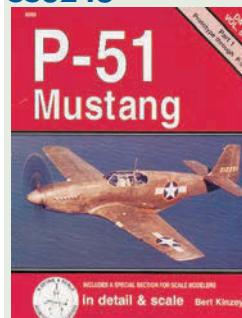
Robinson. Covers the bombers of SAC, the fighters of TAC, transports, the Military Air Lift Command and the trainer and liaison aircraft. Illustrated with 43 photos, over 85 full-color drawings; 32 pages.

SS6563

EA-6B Prowler in Detail & Scale (SC)

Kinzey. This title gives a comprehensive look, inside and out, of the US Navy's primary Electronic Countermeasures Aircraft. Illustrated with 171 b/w and 35 color photos, 24 b/w drawings; 72 pages.

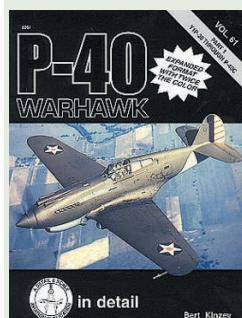
SS8246



F-84 Thunderjet in Detail & Scale (SC)

Kinzey. Includes complete inside and out tour of the different variants and a 2-page modeling summary. Illustrated with 156 b/w and 48 color photos, 8 color drawings, 41 b/w line drawings; 80 pages.

SS8259

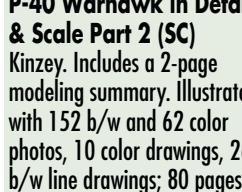


P-40 Warhawk in Detail & Scale Part 1 (SC)

Kinzey. Extensive interior and exterior photo coverage of the different variants.

Includes a 2-page modeling summary. Illustrated with 166 b/w and 51 color photos, 10 color drawings, 29 b/w line drawings; 80 pages.

SS8261

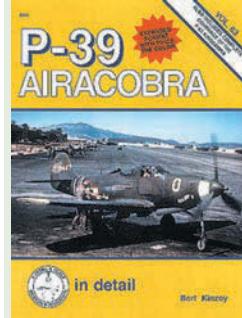


P-40 Warhawk in Detail & Scale Part 2 (SC)

Kinzey. Includes a 2-page modeling summary. Illustrated with 152 b/w and 62 color

photos, 10 color drawings, 26 b/w line drawings; 80 pages.

SS8262



P-39 Airacobra in Detail & Scale (SC)

Kinzey. Illustrated with 185 b/w and 58 color photos, 10 color drawings, 28 b/w line

drawings; 83 pages.

SS8263

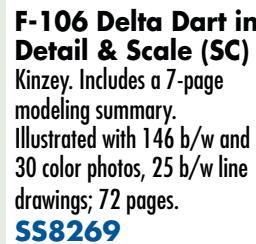
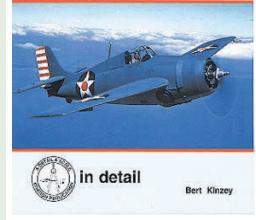
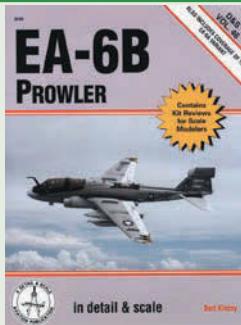


DETAIL & SCALE

B-24 Liberator in Detail & Scale (SC)

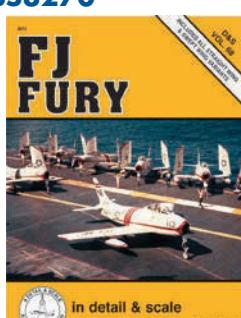
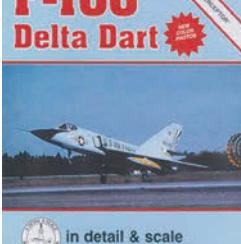
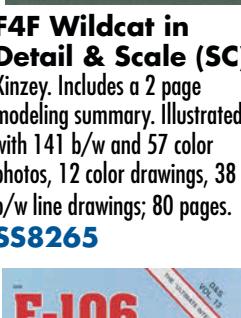
Kinzey. Includes a 2-page modeling summary. Illustrated with 177 b/w and 55 color photos, 10 color drawings, 23 b/w line drawings; 83 pages.

SS8264



Kinzey. This title has extensive photo coverage of the airframes, cockpits, landing gear, engines, and weapons. Includes a 2-page modeling summary. Illustrated with 170 b/w and 36 color photos, 10 color drawings, 22 b/w line drawings; 78 pages.

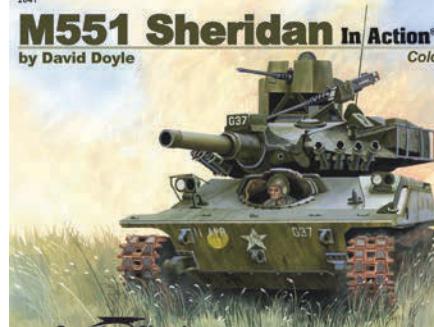
SS8272





ARMOR IN ACTION

2041
M551 Sheridan In Action® 2041
by David Doyle



Squadron Signal

M551 Sheridan in Action (SC)

Doyle. Beginning in 1966, the Allison Division of General Motors built 1,562 M551s with primary armament being a 152-millimeter gun/launcher capable of firing conventional ammunition or the Ford-built Shillelagh anti-tank missile. Whatever the conception, this vehicle proved an asset to the Army in Vietnam, Panama, and Operation Desert Storm. Illustrated with 91 color photos, 8 b/w photos, 7 color profiles, 3-view drawing, vehicle development illustrations, and 2 colorized camouflage patterns; 60 pages.

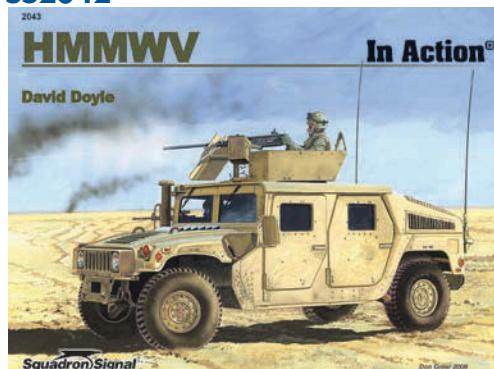
SS2041



World War II Jeep In Action (SC)

Doyle. Jeeps were configured for radio gear, armed with weapons, and bore stretchers. Large numbers of Jeeps were also delivered to allied nations. This book takes a detailed look at these vehicles' service during World War II with more than 100 photographs, color profiles and detailed line drawings; 52 pages.

SS2042



HMMWV In Action (SC)

Doyle. This book takes a detailed look at HMMWV with more than 100 photographs, color profiles and detailed line drawings; 52 pages.

SS2043

2044 Italian Truck-Mounted Artillery In Action®

Ralph Riccio
and Nicola Pignato

In Action®

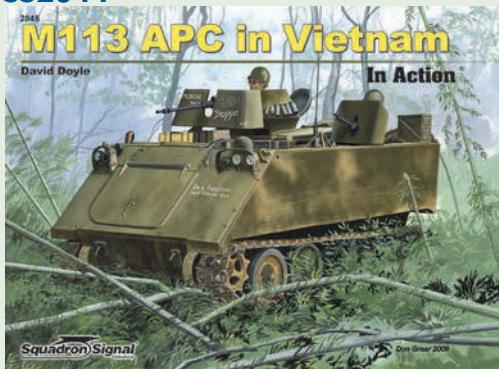


Squadron Signal

Italian Truck-Mounted Artillery in Action (SC)

Riccia. Italian military planners saw the need for highly mobile artillery early in the 20th Century. Accordingly, Italy began mounting anti-aircraft weapons on truck chassis prior to WWI, giving birth to the autocannone, a weapon concept which would soldier through both World Wars. A unique and lavishly-illustrated survey of the various weapon combinations devised by the Italian military from the inception of the autocannone until the end of WWII. Illustrated with more than 200 photographs, plus color profiles and detailed line drawings; 56 pages.

SS2044

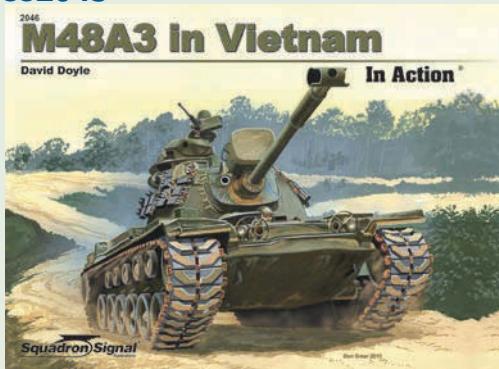


Squadron Signal

M113 APC in Vietnam in Action (SC)

Doyle. Although the M113 has largely been replaced by the Bradley Fighting Vehicle and is now only in limited use by the US armed forces, the vehicle remains in use today in the armed forces of other allies around the world. Illustrated with 130 photographs, plus color profiles and detailed line drawings; 64 pages.

SS2045



Squadron Signal

M48A3 in Vietnam in Action (SC)

Doyle. Just as the Sherman tank was the quintessential 'American tank' in WWII, the M48A3 Patton tank was the most prominent US battle tank during the Vietnam War years of the 1960s and 1970s. Illustrated with 109 photos, plus color profiles and detailed line drawings; 48 pages.

SS2046

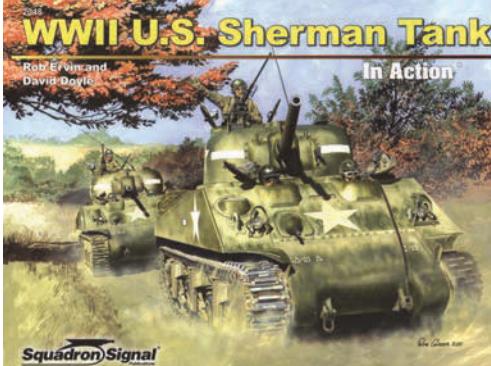


Squadron Signal

Tiger I in Action (SC)

Doyle. Illustrated with over 200 vintage photographs, plus color profiles and detailed line drawings; 72 pages.

SS2047



Squadron Signal

WWII U.S. Sherman Tank in Action (SC)

Ervin and Doyle. Nearly 200 period photos, in rare original color, line drawings, turret, weapons used. Includes color profiles; 80 pages.

SS2048



Squadron Signal

German Armored Cars in Action (SC)

Doyle. Packed with more than 220 period photographs, chronicles development, deployment of Germany's six and eight-wheeled armored cars before and during WWII; 80 pgs.

SS12050



Squadron Signal

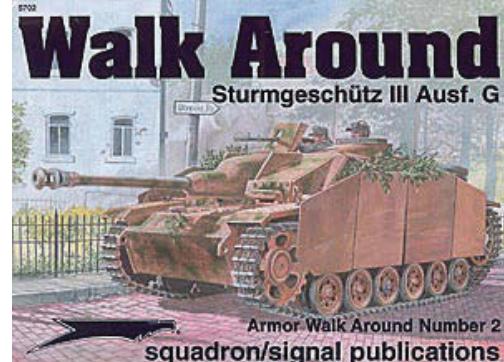
M151 MUTT in Action (SC)

Doyle. 220 photographs; 80 pages.

SS12051

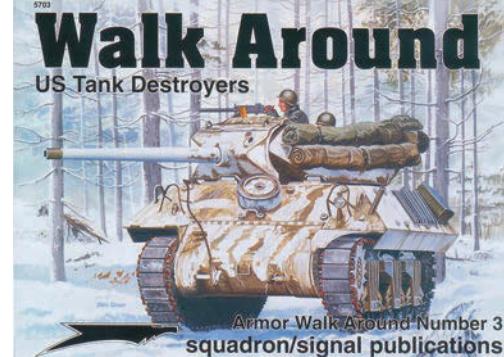


ARMOR WALK AROUND



Sturmgeschutz III Walk Around (SC)
Cockle. Extensive coverage of the StuG III Ausf G variants armed with the 75mm 40 L/48 gun. Inside and out details of running gear, hull, fighting compartment, engine deck, engine, and fittings. Illustrated with 118 b/w and 107 color photos, 18 color drawings, 12 b/w drawings; 80 pages.

SS5702



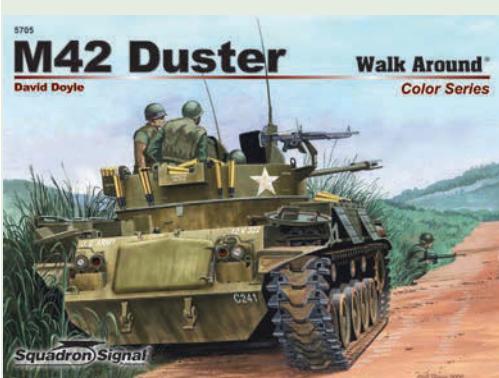
US Tank Destroyers Walk Around (SC)
Mesko. This title follows the development of the M10, M36, and M18 tank destroyers, with inside and out details of running gear, hull, fighting compartment, engine deck, engine, and fittings. Illustrated with 145 b/w and 147 color photos, 12 color drawings, 8 b/w drawings; 80 pages.

SS5703



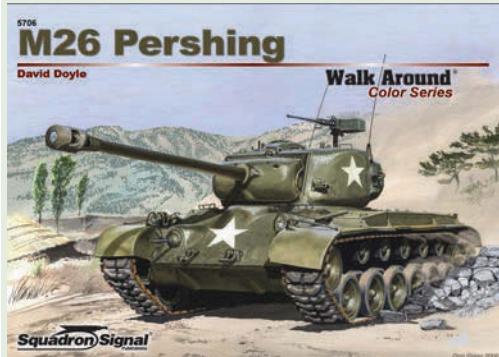
M2/M3 Half-Track Walk Around (SC)
Mesko. These halftracks saw service on every front during WWII, and served in many countries for decades after the end of the war. This title includes inside and out coverage of the US Army personnel halftracks during WW II. Also covers the M4 Mortar Carrier, M16 MGMC, and Israeli variants. Illustrated with 130 b/w and 114 color photos, 12 color drawings, 8 b/w drawings; 80 pages.

SS5704



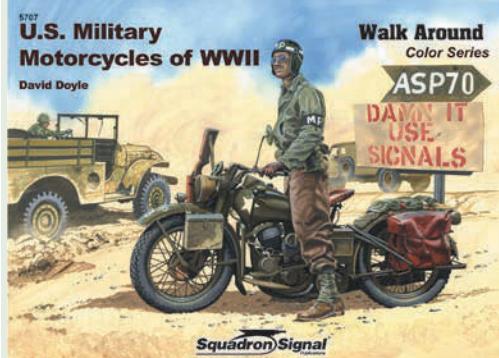
M42 Duster Walk Around (SC)
Doyle. The lack of radar tracking system meant the M42 was a 'fair weather' shooter against low, slow targets; it just could not keep pace with the new generation of Soviet jet aircraft. As American involvement in Vietnam increased, 3 battalions of Dusters were sent to South Vietnam - initially for anti-aircraft duties, but with clear skies over the South, the M42 was usefully employed as convoy escort, perimeter and base security, and direct fire support. A detailed look at the M42 Duster with more than 200 photographs, color profiles and detailed line drawings; 80 pages.

SS5705



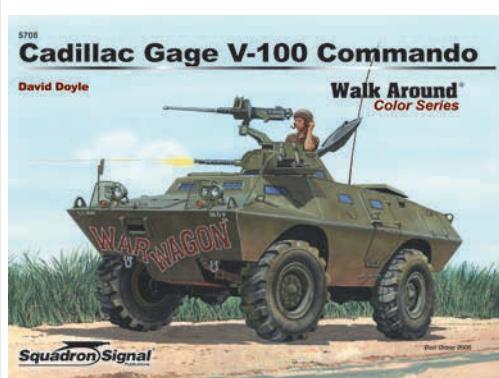
M26 Pershing Walk Around (SC)
Doyle. The basic design of the M26 - the designation the T26E3 had been given when it was classified 'standard' in March 1945 - was to form the basis of a long line of excellent tanks (M46, M47, M48 and M60) that would serve US armed forces for 40 years. Illustrated with 250 photographs, color profiles, and detailed line drawings; 80 pages.

SS5706



U.S. Military Motorcycles of WWII Walk Around (SC)
Doyle. The advent of the Jeep took over the motorcycle's role in military service, and the bikes were relegated to veteran vehicles of the past. Illustrated with over 200 color photographs, 11 black-and-white photographs and color art by Don Greer; 80 pages.

SS5707



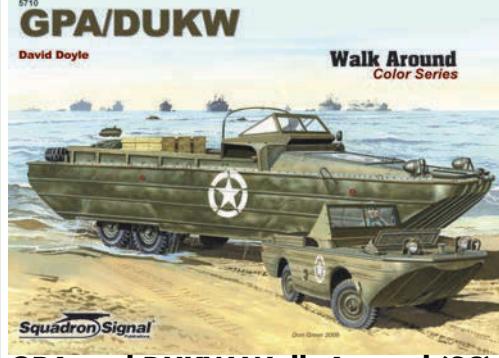
Cadillac Gage V-100 Commando Walk Around (SC)
Doyle. The best-known American armored car of the post-WWII era, the Cadillac Gage Commando - a versatile, amphibious, 4x4 vehicle - still looks modern even though it made its debut in 1962. The V-100 Commando went through numerous changes in light of its extensive and varied experience in reconnaissance, convoy escort, riot control, security, and as a personnel carrier. Illustrated over 200 color photographs plus detailed line drawings; 80 pgs.

SS5708



Sd.Kfz.251 Ausf.D Walk Around (SC)
Stapfer. Considered the German Army's most important armored half-track in WWII, the Sd.Kfz.251 allowed the infantry to keep up with the Heer's fast armored elements. The vehicle came in 4 models and 23 variants, but the Ausf.D was the most produced model. Illustrated with over 150 color photographs, detailed line drawings, and 8 colored profiles. A must have book for the armor, modeling, history, and military enthusiast; 80 pages.

SS5709



GPA and DUKW Walk Around (SC)
Doyle. Production of the GPA, essentially an amphibious Jeep, ended in 1943, just as the career of the DUKW, a virtual aquatic truck, was on its way to becoming the 'gold standard' by which other amphibians are measured to this day. Illustrated with 263 high quality photographs, color art, and profiles; 80 pages.

SS5710



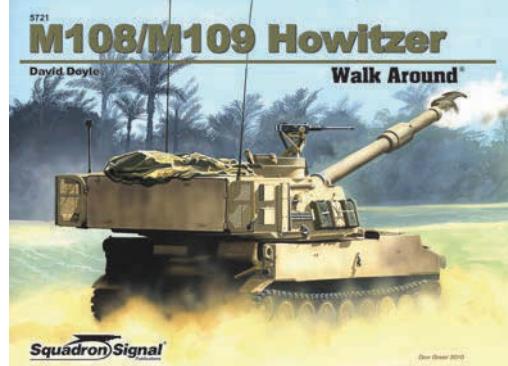
ARMOR WALK AROUND



M3A1 White Scout Car Walk Around (SC)

Doyle. The White Motor Company began serial production of the four-wheel-drive M3A1 Scout Car in 1940. Illustrated with more than 200 photographs, plus color profiles and detailed line drawings; 80 pages.

SS5720



M108/109 Self-Propelled Howitzer Walk Around (SC)

Doyle. Introduced in the early 1960s, the M108/109 marked the transition from open-topped to fully enclosed self-propelled artillery. Illustrated with more than 315 photographs, plus color profiles and detailed line drawings; 88 pages.

SS572



Valentine Tank Walk Around (SC)

Doyle. Though not the 1st tank to go into battle against the Axis in WWII, Valentine has distinction of having highest production numbers of any wartime British tank, arguably the most variations. After the war, Valentines continued to serve several British Commonwealth armies late as 1950s. Illustrated with 250 photos, plus color profiles and detailed line drawings; 88 pages.

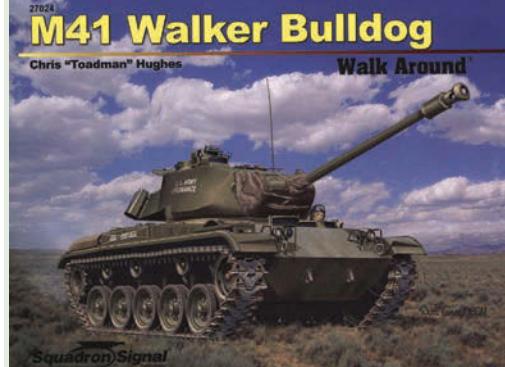
SS5722



FT-17 / M1917 WWI Tanks Walk Around (SC)

Doyle. Introduced in 1917, the Renault FT-17 and its American-built copy, the M1917, revolutionized tank design. The vehicle's rotating turret, rear-engine, driver-forward design are characteristics of the most advanced tanks even today. This volume presents a careful study of the details and variations of this innovative vehicle, inside and out. Two-hundred thirty-seven photographs reveal the intimacies of no fewer than 14 of the finest surviving examples of these machines, preserved on three different continents. Nine detailed line drawings supplement the photos and comprehensive captions; 80 pages.

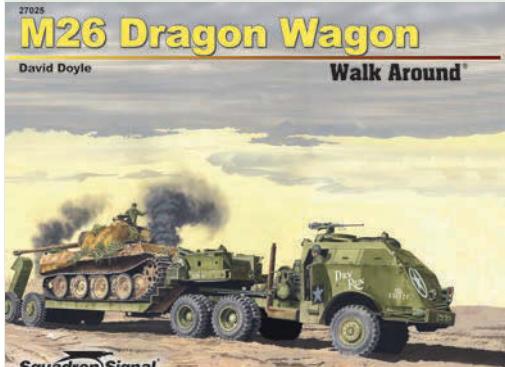
SS27023



M41 Walker Bulldog Walk Around (SC)

Hughes. The standard US light tank during the early years of the Cold War, the M41 Bulldog was developed as a more powerful successor to the M24 Chaffee. Illustrated with 250 photographs plus color profiles and numerous detailed line drawings; 80 pages.

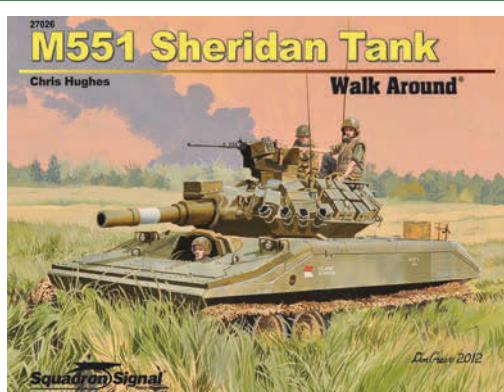
SS27024



M26 Dragon Wagon Walk Around (SC)

Doyle. Examines the armored and soft-skin versions of this massive vehicle, and its trailers, through hundreds of color photos and some of the finest restored examples in existence. Illustrated with over 230 photographs; 80 pages.

SS27025



M551 Sheridan Tank Walk Around (SC)

Hughes. Illustrated by more than 240 photographs plus eight detailed line drawings; 80 pages.

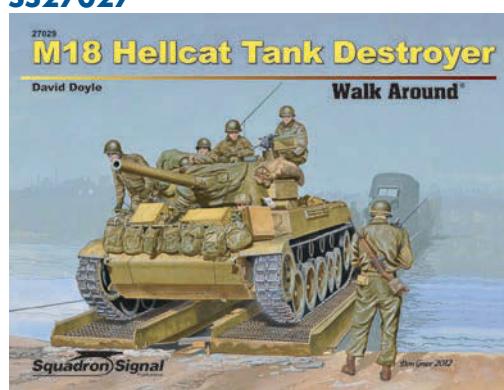
SS27026



Jagdpanzer 38 Hetzer Walk Around (SC)

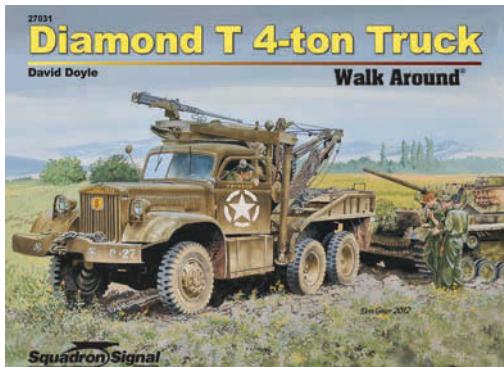
Stapfer. Illustrated with over 200 photographs, plus detailed line drawings, and color profiles; 80 pages.

SS27027



M18 Hellcat Tank Destroyer Walk Around (SC)

SS27029



Diamond T 4-ton Truck Walk Around (SC)

SS27031



DETAIL IN ACTION

M50A1 Ontos

David Doyle



Detail In Action

M50A1 Ontos Detail in Action (SC)
Doyle. 'The Thing' - the meaning of the Greek word 'Ontos' is an apt name for this ungainly vehicle. Originally developed for the Army, which then discarded it, the Ontos was instead adopted by the Marine Corps. Conceived as a potent, lightweight, mobile 6-barrel tank killer to counter a feared mass Soviet armored attack in Europe, the Ontos instead rose to fame in the jungles of Vietnam where its six 106mm recoilless rifles proved deadly against massed infantry attacks, as well as being well-suited for urban assault work. This volume incorporates over 60 period photos chronicling the development and use of the Ontos, plus a further 150 detailed walk-around photos providing an in-depth exploration of this unique fighting machine; 72 pages.

SS5901

Ferdinand / Elefant

David Doyle



Detail In Action

Ferdinand / Elefant Detail in Action (SC)
Doyle. In an effort to turn the proverbial lemon, in the form of an unsuccessful Tiger design, into lemonade, Porsche engineers at the behest of the German army, converted the failed chassis into one of the largest and most potent tank destroyer designs of World War II. Initially fielded as the Ferdinand, the vehicles were further modified, and ultimately given a new - and apt - name: 'Elefant.' This new volume explores not only the combat history of both the Ferdinand and Elefant, but also chronicles the development of the ill-fated Porsche Tiger design through 88 period black-and-white photos. Further enhancing its utility to the enthusiast, 110 full-color photos of the only surviving examples of each type illustrate the nuances of the construction and subsequent wartime modification of these giant tank killers. Also features 16 detailed line drawings as well as 15 masterful color profiles; 80 pages.

SS39001

DETAIL IN ACTION

K5(E) Railgun

David Doyle



Detail In Action

Squadron Signal

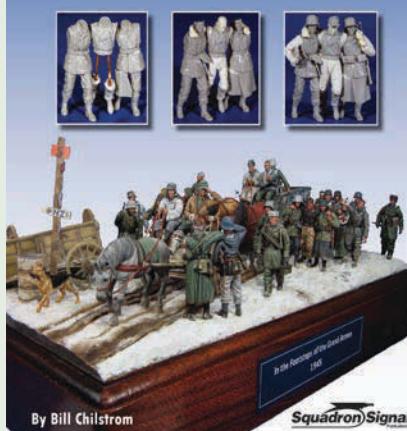
K5(E) Railgun Detail in Action (SC)

Doyle. The German K5(E) 280mm railgun is arguably the most effective weapon of its type ever developed. Boasting an 11-mile range, the 24 massive guns of this type were deployed from Italy to the Russian Front, and even along the English Channel Coast. Today, only two of these fearsome artillery pieces remain. Through a collection of 55 vintage black and white photos - many of them previously unpublished - and more than 170 photos of the two preserved examples in the US and France, the intricacies of these massive weapons are explored in detail. In addition, the book is augmented by nine illustrations; 80 pages.

SS5902

MODELING SERIES

Converting and Detailing Plastic Figures



By Bill Chilstrom

Squadron Signal

Converting and Detailing Plastic Figures (SC) Chilstrom. Renowned miniaturist Bill Chilstrom shares his tips and techniques for bringing injection molded plastic figures to life. His award winning diorama 'In the Footsteps of the Grand Armée' is the focus of this book. Bill detailed and converted 28 figures, three horses, two wagons and a mule in the building of this diorama. Many step-by-step and in-progress photos accompany the informative text clearly illustrating what to do to really enhance stock plastic figures. All color; 64 pages.

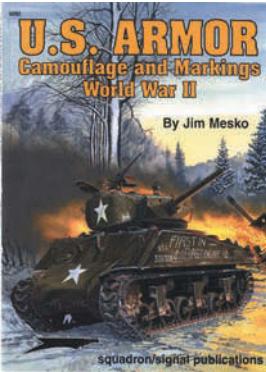
SS6097

ARMOR SPECIALS

US Armor Camo & Markings of WWII (SC)

Mesko. This book attempts to give a broad overview of the various schemes and identifications used on U.S. military vehicles from 1941-1945. Illustrated with 177 b/w photos, 27 color drawings; 64 pages.

SS6090



squadron/signal publications

Tank Warfare on Iwo Jima (SC)

Harper. A small section devoted to Japanese tanks is also included. 133 photos (many never before published), 14 vehicle color plates, 12 color movie stills and excerpts from official documents; 96 pages.

SS6096

SOLDIERS IN ACTION

US INFANTRY VIETNAM



squadron/signal publications
Combat Troops Number 6

US Infantry-Vietnam (SC)

Mesko. Includes an overview of operations in Vietnam from the first US involvement to US withdrawal. Also covers weapons and equipment. 108 photos, 51 detail drawings, 4 maps, 14 full color drawings; 50 pages.

SS3006



Combat Troops Number 10

squadron/signal publications

US Airborne in Action (SC)

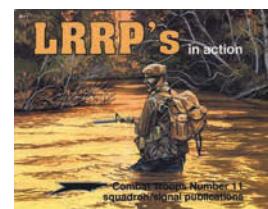
Thompson. Over 100 photos, 40 detail drawings, 16 color drawings; 50 pages.

SS3010

LRRP's in Action Vol. 1 (SC)

Burford. These small units penetrated deep behind enemy lines to gather information on enemy base camp locations.

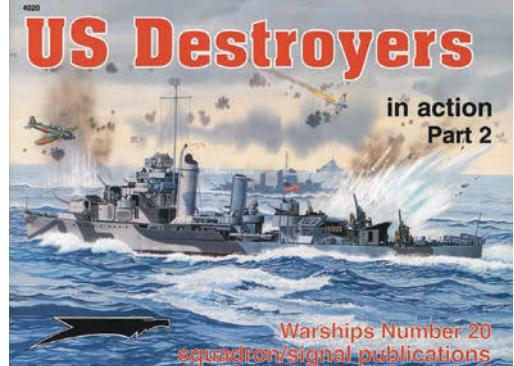
SS3011



Combat Troops Number 11
squadron/signal publications

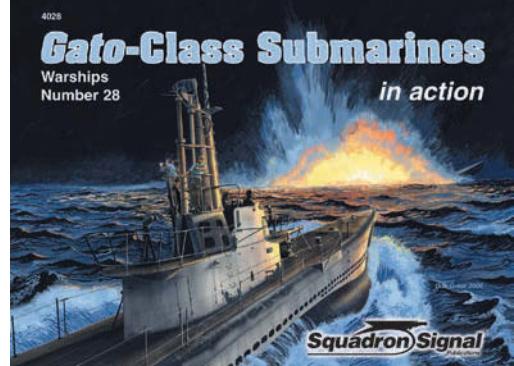


WARSHIPS IN ACTION



US Destroyers in Action Part 2 (SC)
Adcock. This title covers the development and operational service of the Farragut, Porter, Mahan, Fanning, and Craven class destroyers. Illustrated with approximately 100 photos, b/w line drawings, and 6 color profiles; 50 pages.

SS4020



Gato-Class Submarines in Action (SC)
Stern. More than 100 b/w photos, 6 color profiles, line drawings and color covers; 20 color photos, up-to-date information, where the surviving vessels can be viewed.

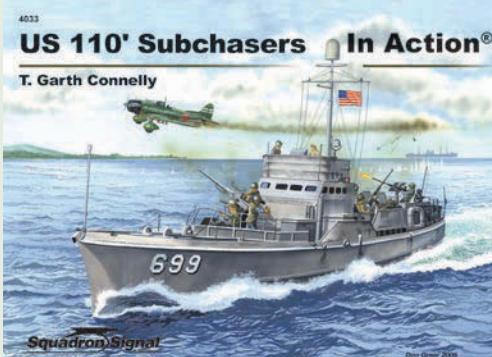
SS4028



Japanese Light Cruisers of WWII in Action (SC) Patton. These fast ships, carrying seaplanes and heavy torpedo armament, generally were used as flagships for destroyer flotillas and submarine squadrons. Of these, 9 were sunk by Allied submarines, 11 were sunk by US aircraft, 2 were sunk by US torpedo boats or destroyers, and 3 were still afloat at the end of the war. Includes never before published photos, 90 b/w photos, 6 color profiles, line drawings, color covers; 58 pages.

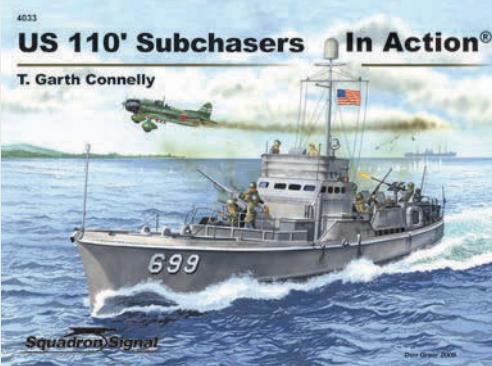
SS4025

WARSHIPS IN ACTION



US Subchasers In Action (SC)
Connelly. During WWI, German U-boats took a heavy toll on merchant and military ships. This book takes a detailed look at US Sub Chasers with more than 100 photographs, color profiles and detailed line drawings; 52 pgs.

SS4033



PT Boats in Action (SC)
Doyle. American Patrol Torpedo - or PT - boat crews served valiantly in every theater during WWII. From the Aleutians to the Mediterranean, these men harassed enemy shipping, launched attacks against much more formidable warships, rescued downed air crews, and spirited General Douglas MacArthur to safety from Corregidor Island in March of 1942. PT boats also laid mines and smokescreens, coordinated air-sea rescue actions, and conducted intelligence and raiding operations. This volume chronicles the evaluation, use, and eventual destruction of the US PT boat fleet through 180 photographs, many of them color. Coverage includes ELCO, Higgins, and Huckins boats; 64 pages.

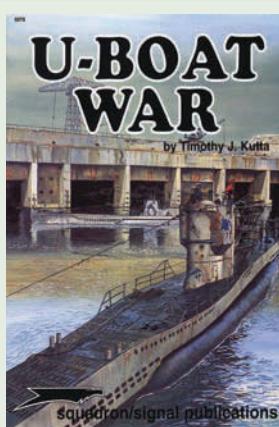
SS4034

SHIP SPECIALS

U-Boat War (SC)

The story of Hitler's U-Boat fleet operations from 1939 to 1945. Provides an extensive collection of photographs and color paintings of the men, submarines and insignia of the U-boat fleet. Includes appendices, 8 pages in color. 64 pages.

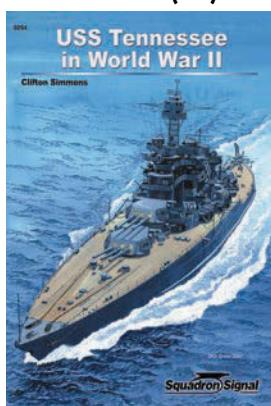
SS6078



SHIP SPECIALS

USS Tennessee in World War II (SC)

Simmons. Commissioned in June of 1920, the US battleship Tennessee saw service in some of the most crucial and dramatic battles in the Pacific Theater of WWII. Docked on Pearl Harbor's Battleship Row on 7 December 1941, her crew manned anti-aircraft guns and fought back as bombs ripped through her deck. The year 1944 saw the



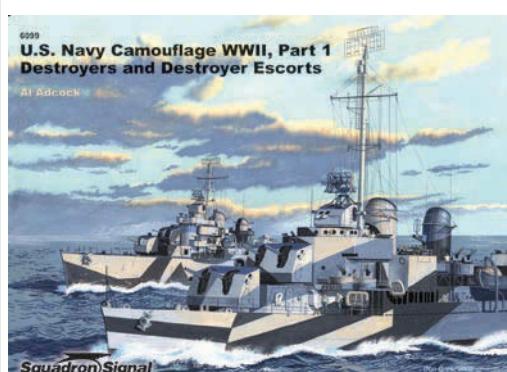
Tennessee take part in battle after battle (including Surigao Strait, the last battleship vs battleship action in naval history) as US forces worked their way towards the Japanese Home Islands. In 1945 she took part in the attack on Iwo Jima. Enriched with exclusive, eye-witness accounts from members of her crew, chronicles the dramatic career of one of America's most battle-tested warships with over 200 photographs, color profiles, and detailed line drawings; 80 pages.

SS6094

US Navy Flying Boats and Amphibians in WWII (SC)

Adcock. Soon after the early aviation pioneers learned to fly, their attention turned to water. It was more abundant than land and presented a vast landing area. With nearly 200 photographs, color profiles and detailed line drawings, this special Squadron/Signal book looks at the various flying boats and amphibians and the contribution they made; 80 pages.

SS6095



US Navy Ships Camouflage WWII, Part I Destroyers and Destroyer Escorts (SC)

Adcock. When WWII ended in 1945, the fleet was restored to Standard Navy Gray to await the next revolution in deceptive paintwork. Illustrated with 116 b/w photos, 2 color photos, and over 30 color renderings/profiles; 68 pages.

SS6099



ON DECK SERIES

SS501 USS Alabama

Al Adcock

On Deck®

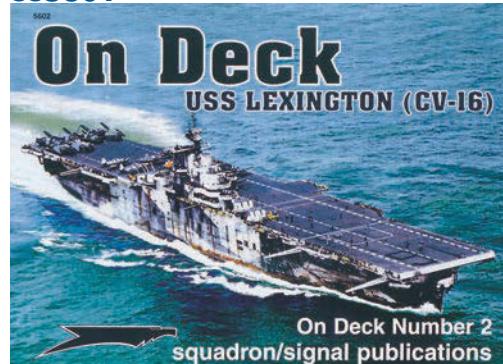


Squadron Signal

USS Alabama on Deck (SC)

Adcock. Now a museum ship berthed at Mobile's Battleship Memorial Park in her namesake state, she is a unique floating memorial and tribute to the men who crewed her. Additional illustrations include 73 b/w and 85 color photos, detailed line art and color cover paintings; 80 pages.

SS5601

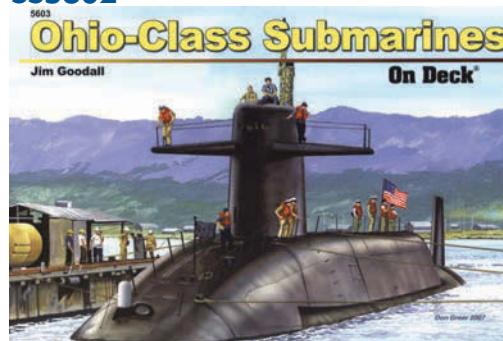


On Deck Number 2
squadron/signal publications

USS Lexington (CV-16) On Deck (SC)

Adcock. The USS Lexington joined the fleet in 1943 and saw extensive action throughout WW2. Post war modernization allowed her to continue in service until 1991! Extensive color and b/w photography, full color aircraft and ship paintings, 40 pages of color; 80 pages.

SS5602

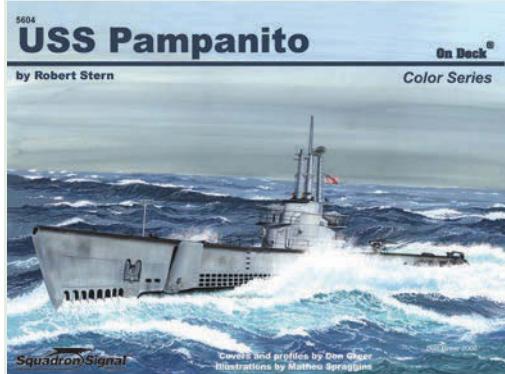


Squadron Signal

Ohio-Class SSBN on Deck (SC)

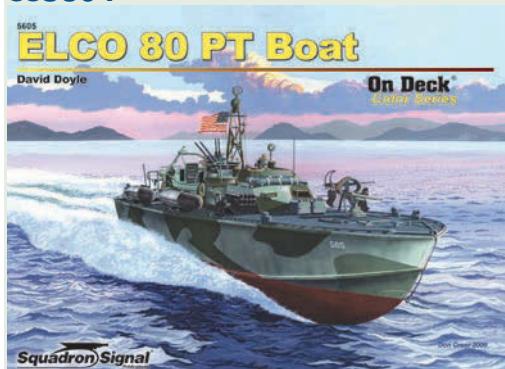
Goodall. Since its inception in 1960, strategic deterrence has been the sole mission of the fleet ballistic missile submarine (SSBN), which provides the nation's most survivable and enduring nuclear strike capability. Unprecedented bow-to-stern look, this critical US weapon system more than 200 color, b/w photos, line drawings and 8 color profiles; 80 pgs.

SS5603



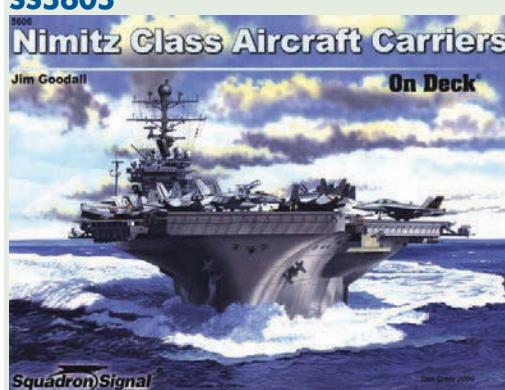
SS5604 USS Pampanito On Deck (SC)
Stern. The USS Pampanito, a Balao-class fleet submarine, was commissioned in late 1943 and went into action in the Pacific at the height of WWII. Illustrated with 265 highly detailed photographs, color profiles, and intricate line drawings; 80 pages.

SS5604



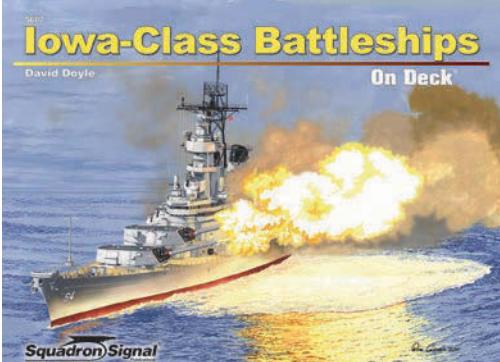
SS5605 ELCO 80 PT Boat On Deck (SC)
Doyle. Say "PT Boat" and the image that comes to mind is that of the 80-foot patrol torpedo boat built by the Electric Launch Company (ELCO) in Bayonne, New Jersey. Packed with over 200 photographs, plus color art and profiles; 80 pages.

SS5605



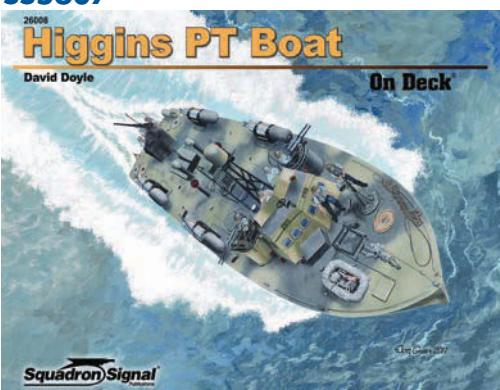
SS5606 Nimitz Class Aircraft Carriers On Deck (SC)
Goodall. The largest naval vessels in the world are the Nimitz-class super aircraft carriers. USS Carl Vinson was the first to launch air attacks as part of Operation Enduring Freedom in Afghanistan. In the mid-1990s USS Theodore Roosevelt supported NATO air strikes against Bosnian Serbs during fighting in former Yugoslavia. USS Abraham Lincoln backed up Operation Iraqi Freedom and Enduring Freedom in Afghanistan in the early 2000s. Illustrated with more than 300 photographs, plus color profiles and detailed line drawings; 80 pages.

SS5606



Iowa-Class Battleships on Deck (SC)
Doyle. More than 270 color photos, 88 pages.

SS5607



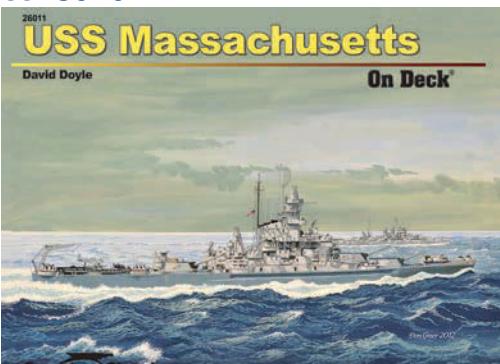
Higgins PT Boat On Deck (SC)
Doyle. Illustrated with over 120 photographs; 80 pages.

SS26008



SS26010 USS Kidd On Deck (SC)
Doyle. Illustrated with 234 photographs; 80 pages.

SS26010



SS26011 USS Massachusetts On Deck (SC)
Doyle. Illustrated with 286 photographs, and color profiles; 96 pages.

SS26011



SQUADRON AT SEA

USS Arizona

David Doyle

Squadron At Sea



Squadron Signal

USS Arizona Squadron At Sea Series (SC)

Doyle. Packed with rare photographs unearthed from sources throughout the country, this volume follows the history of one of America's most iconic naval vessels. Glimpse the life of the crews that manned her and follow her through the maintenance and refits that dramatically changed her appearance. Describes the horrific explosion that ripped through her hull on the dark morning of 7 December 1941, and a series of unique photos document the years of wartime salvage work aboard the sunken battleship. Chronicled too is Arizona's ongoing service as a tomb and memorial to the 1,177 men who perished with her. A testament to the Arizona and her men brought to you as you've never seen them before. Illustrated with 288 photographs, 5 detailed line drawings, 7 color illustrations; 120 pages.

SS34001

USS North Carolina

David Doyle

Squadron At Sea



Squadron Signal

USS North Carolina Squadron at Sea (SC)

Doyle. Laid down in 1937 and launched on 9 April 1941, the USS North Carolina was the first new construction battleship to enter service during WWII and took part in every major naval offensive in the Pacific Theater, becoming the most decorated US battleship of WWII. After a brief stint post war as a training ship, the North Carolina - dubbed in the press as the 'Showboat' - was laid up in reserve, before her eventual movement to Wilmington, in her namesake state, and her preservation as a war memorial. This volume traces the history of the North Carolina, photographically documenting the evolution of armament and electronics that elevated her pre-Pearl Harbor design to its peak - bristling with guns to counter the threat of kamikaze attack. Generously illustrated with more than 330 photographs - many of them color, detailed line drawings and 11 color profiles that document the various camouflage schemes worn by both the ship and her scouting aircraft.; 136 pages.

SS34002



USS Texas Squadron At Sea (SC)

Doyle. The USS Texas proudly saw combat in both World Wars I and II, and since 1948 has been preserved in her namesake state as memorial to American servicemen. Armed with 10 14-inch guns and displacing 32,000 tons, the battleship is still a formidable sight as she enters into her second century. This expansive volume tells the tale of the Texas and her crew. Loaded with black-and-white and color photos not only showcase the construction, numerous voyages, modifications, combat action, and ultimate preservation of the ship, but also show the vessel as a home, office, and workshop for the men who served as her crew. These historic images are augmented with five line drawings illustrating her key configurations, as well as nine color profiles depicting her aircraft, as well as the many camouflage schemes she wore. Illustrated with over 350 photographs; 152 pages.

SS34003

USS Saratoga

David Doyle

Squadron At Sea

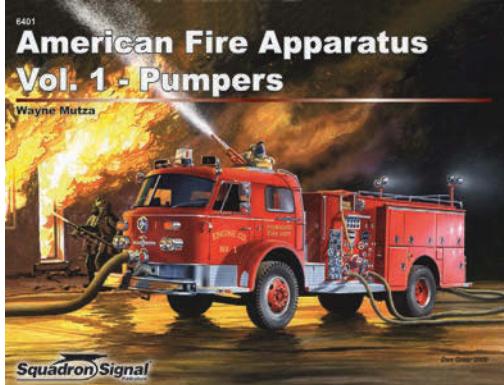


USS Saratoga Squadron at Sea (SC)

Doyle. Faced with the restrictions of the Washington Navy Treaty, the US Navy had a choice: either scrap their partially complete, battlecruiser Saratoga, which along with her sister ship Lexington were intended to be the most powerful in the world; or convert them into an aircraft carriers. Having survived two torpedo hits by Japanese subs, as well as repeated bomb and Kamikaze strikes, at war's end she took part in the huge Magic Carpet operation that transported thousands of US servicemen back to the mainland. Deemed too old for the victorious Navy's postwar needs, her final duty was to test the survivability of an atomic blast. Still afloat after the first nuclear explosion, she was sent to the bottom of Bikini Atoll by the second of the blasts, and still rests there today, where she welcomes the occasional scuba diver. All these exploits, as well as others, including Saratoga's numerous refits, are presented and profusely illustrated with 383 color and b/w photos capturing the ship, her crew and aircraft supplemented by 11 line drawings and 25 color renderings; 160 pages.

SS34004

NON-MILITARY VEHICLE



American Fire Apparatus Volume

1: Pumpers (SC) Mutza. Organized companies of firefighters first appeared in Colonial America and were mobilized, like local militias, on a volunteer basis. Like military equipment, firefighting apparatus evolved in tandem with technological advances. This volume traces the development of the chief and best-known fire-fighting apparatus 'the pumper or fire engine' from hand-drawn pumps, through horse-drawn vehicles in the 19th Century to the advanced fire trucks of the 21st Century. Chapters introduce the early years of the pumper, follow its motorization, and then, decade-by-decade, meticulously review the evolution of the fire truck from the 1930s until today. The book's dedication to the firefighters who gave their lives on 9-11 serves as a reminder that the nation's First Responders stand guard together with the armed forces on the front lines of our defense. Illustrated with over 300 photographs; 96 pages.

SS6401



American Fire Apparatus: Volume 2 Aerial Equipment (SC)

Mutza. As the urban skyline rose and horse power gave way to motorization, the need increased for better ladders and other aerial equipment to fight fires in tall buildings. Ladders grew longer and the trucks that carried them evolved. Improved aerial ladders were fixed to truck beds and new methods were devised to get water and firefighters to building heights. The hundreds of unique and dramatic photos that pack this volume feature fire trucks equipped with a wide spectrum of devices evolved over more than a century, including aerial ladders, elevating platforms, aerial ladder platforms, and water towers. The book illustrates the evolution of the styles and function of the vital 'hook-and-ladder trucks' that are an integral part of fire departments throughout the United States. Containing more than 320 photographs, including rare, historic photos and dramatic color shots; 96 pages.

SS6402



GREAT BATTLES

Thermopylae 480 BC: The Most Unequal Battle in History (SC)

Belezos and Kotoulas. The definitive history of the fabled battle at the pass of Thermopylae. For 2 and 1/2 days Spartan King Leonidas lead his 300 along with a contingent of Thespians against the massive Persian army of Xerxes I. Amply illustrated with photos, maps and color plates to create a panorama of the men, equipment and the world they fought in. Written in Greece and expertly translated into English, includes glossary; 100 pages.

SS7001

Marathon 490 BC: Athens Crushes Persian Might (SC)

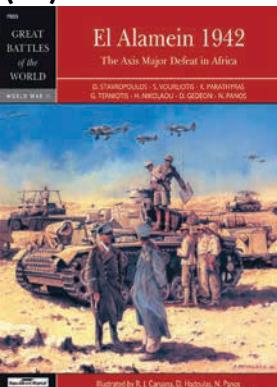
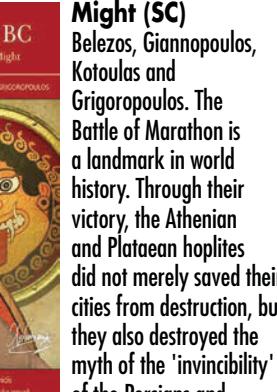
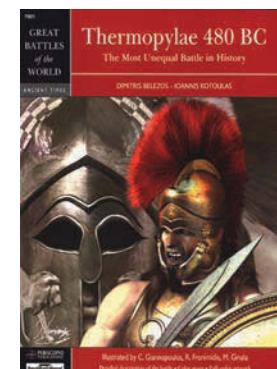
Belezos, Giannopoulos, Kotoulas and Grigoropoulos. The Battle of Marathon is a landmark in world history. Through their victory, the Athenian and Plataean hoplites did not merely saved their cities from destruction, but they also destroyed the myth of the 'invincibility' of the Persians and proved the superiority of their armor, weaponry and tactics. Reveals the causes of the Persian invasion, follows the unknown Marathon runner in his run to announce the victory and relates the captivating myths created by the historical battle that still remain a part of the oral tradition of this epic. Enriched with photographs, maps of the area and tactical battle movements and color illustrations of uniforms. Written in Greece and expertly translated into English. 104 pages.

SS7002

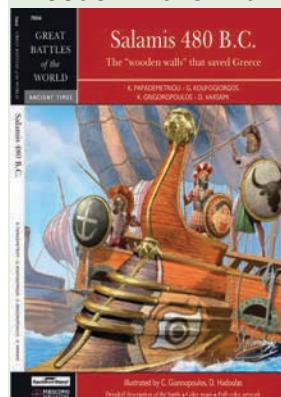
El Alamein 1942: The Axis Major Defeat in Africa (SC)

After a bloody 12-day battle, the Afrikakorps was forced to retreat. The soon-to-be-legendary 8th Army had smashed German dreams of dominating North Africa. Enriched with color and b/w photographs, color maps, aircraft and tank profiles and color illustrations of uniforms; 120 pages. English text.

SS7003



The Battle of Salamis 480 BC: The 'Wooden Walls' that Saved Greece (SC)



Includes the historical elements of the battle, a brief biography of the father of the great victory, Themistocles, and chapters from the Persian point of view as well. Also addresses the lesser-known details of the battle to assist in understanding the overwhelmingly difficult conditions under which the Greek fleet prevailed. Enriched with color and b/w photos, maps and tactical movements and color uniform plates; 96 pages. English Text.

SS7004

The Battle of Berlin: The Collapse of the 'Thousand-Year' Reich 1945 (SC)

Stavropoulos, Vourliotis, Terniotis, Kotoulas, Valmas, and Zouridis. By the dawn of 1945, the Western Allies had driven back Hitler's last, desperate effort in the Ardennes. However, the Allies' insistence on Germany's unconditional surrender deterred the Germans from making any concession over ending the war - Hitler and the Nazi faithful saw their only option to be a fanatical Wagnerian stand leaving only Germany's ruins to commemorate the tragedy. Further, it was already clear that another kind of war was right around the corner. Illustrated with color and b/w photographs, color maps, 8 aircraft and 9 armor profiles, and 14 color uniform plates; 128 pages. English text.

SS7005

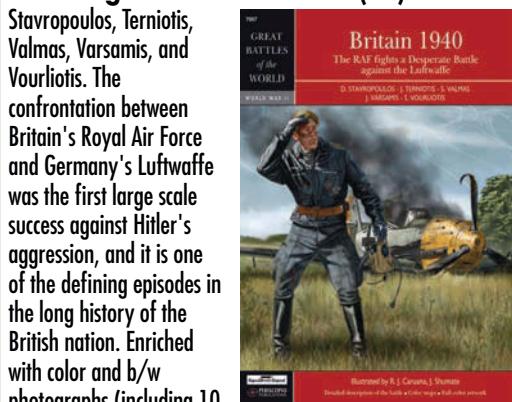
Kursk 1943: The Greatest Tank Battle in History (SC)



Great Battles of the World; Kampouris, Zouridis, Theodoratos, Stavropoulos, Varsamis, Vourliotis, Gedeon, Valmas. In the summer of 1943, after two years of total war on the Eastern Front, the Germans were ready to meet the Soviets on the decisive battlefield. The greatest tank battle of all time proved to be the beginning of the end for the Third Reich. The elite panzer formations were decimated and would never again regain their former strength. Nothing could turn the fortunes of the war for the Axis and their Soviet flood was not to be stopped until the ruins of Berlin. Illustrated with color and b/w photographs, color maps, 12 aircraft and 18 armor profiles, and 12 color uniform plates; 136 pages.

SS7006

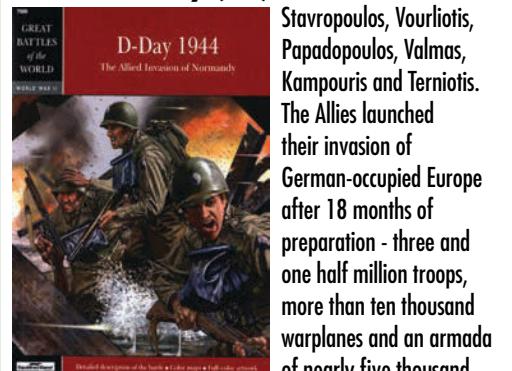
Britain 1940: The RAF Fights a Desperate Battle Against the Luftwaffe (SC)



Stavropoulos, Terniotis, Valmas, Varsamis, and Vourliotis. The confrontation between Britain's Royal Air Force and Germany's Luftwaffe was the first large scale success against Hitler's aggression, and it is one of the defining episodes in the long history of the British nation. Enriched with color and b/w photographs (including 10 page Photographic Tribute to the Battle of Britain), color maps, 50 aircraft profiles and 9 color uniform illustrations. A fitting tribute and record of "their finest hour"; 160 pages.

SS7007

D-Day 1944: The Allied Invasion of Normandy (SC)

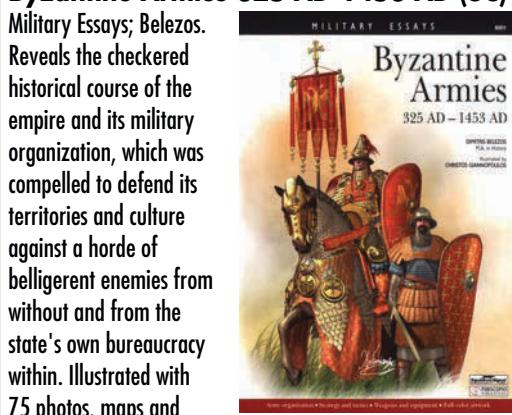


Stavropoulos, Vourliotis, Papadopoulos, Valmas, Kampouris and Terniotis. The Allies launched their invasion of German-occupied Europe after 18 months of preparation - three and one half million troops, more than ten thousand warplanes and an armada of nearly five thousand sea-going vessels stormed 'Fortress Europe' and opened the long awaited second front against Hitler's Reich. Includes the Allied bid for air superiority, the landings, a photo file, opposing commanders and forces, portable weapons and many lesser known details of the making of the new Western Front. Amply illustrated with more than 60 b/w and 30 color photos, 6 maps, 21 equipment profiles, 13 uniform plates and additional specially commissioned art; 136 pages.

SS7008

MILITARY ESSAYS

Byzantine Armies 325 AD-1453 AD (SC)



Military Essays; Belezos. Reveals the checkered historical course of the empire and its military organization, which was compelled to defend its territories and culture against a horde of belligerent enemies from without and from the state's own bureaucracy within. Illustrated with 75 photos, maps and additional graphics plus 13 full color plates. Also includes a glossary of Greek and Latin terms; 136 pages. English text.

SS8001



AIRCRAFT IN ACTION

B-52G/H Stratofortress

Kenneth P. Katz

In Action



B-52G/H Stratofortress in Action (HB)

Katz. More than any other weapon system, the legendary Boeing B-52 Stratofortress is the embodiment of American military power in the popular imagination. Boeing delivered the last B-52 in 1962. Five decades later, the B-52 remains in front-line service, most recently taking part in combat over Afghanistan and Iraq. Even more amazingly, current plans are for the B-52 to remain in service until 2040. This volume is packed with historical and recent photographs of the B-52, including some that were released by the US Air Force and its contractors just for use in the book. As part of his research, the author flew on a B-52 training mission, and the flight report in this volume is the most detailed description of a B-52 mission ever published. Illustrated with color profiles, detailed line drawings and over 190 photographs; 88 pages.

SS50207

B-17 Flying Fortress

David Doyle

In Action



B-17 Flying Fortress in Action (HB)

Doyle. The B-17 Flying Fortress dropped more bombs than any other US aircraft in WWII and is arguably the iconic bomber of that epic conflict. First flown in 1935, the aircraft was repeatedly modified, upgraded, and perfected in response to combat experience. Also highlights the roles played by individual aircraft and their crews, such as the 'Memphis Belle', which completed 25 missions over enemy territory; 'Stage Door Canteen', christened by Winston Churchill's daughter; and 'All American', which demonstrated the incredible toughness of the Flying Fortress by returning safely to base despite having its tail nearly sheared off by a Messerschmitt. An unmatched, lavishly illustrated account of one of the greatest warplanes of all time, a must have! Perfect binding. Illustrated with 200 vintage photographs, plus color profiles and detailed line drawings; 80 pages.

SS50219



TBF/TBM Avenger

David Doyle

In Action

TBF/TBM Avenger In Action (HB)

Doyle. Designed by Grumman as a replacement for the Douglas TBD Devastator, Avenger production began prior to the Japanese attack on Pearl Harbor and it remained in US Navy service until October 1954. This all-new edition is filled with 212 vintage photos, 29 of them in color, these are augmented by five color profiles and a like number of detailed line drawings; 80 pgs.

SS50225

B-29 Superfortress

David Doyle

In Action



B-29 Superfortress In Action (HB)

Doyle. While most often remembered as the type of aircraft that dropped the first atomic bomb, and for its extensive use in bombing Japan during the latter stages of WWII, the B-29 also saw plenty of combat during the Korean War. Individual sections of the book explore the interior and armament of these bombers, as well as their production by Boeing, Martin, and Bell. Illustrated with 248 photographs, 90 of them in full color; 88 pages.

SS50227

B-24 Liberator

David Doyle

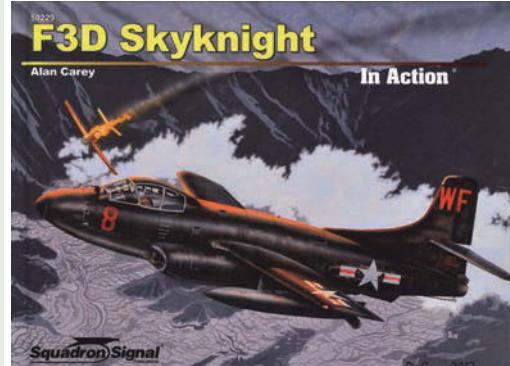
In Action



B-24 Liberator in Action (HB)

Doyle. Lavishly illustrated with almost 250 authentic wartime photos, including over 80 in vintage color, with supplemental drawings and color profiles. Experimental versions, classic bombers, freighters, tankers, reconnaissance birds - even the rare gunship version - are shown; 88 pages.

SS50228



F3D Skyknight

Alan Carey

In Action

F3D Skyknight in Action (HB)

Carey. The US Navy's first all-weather jet fighter, the Douglas F3D Skyknight, traces its origins to 1945, when the Navy began studies for a jet-powered, carrier-based night fighter. This book chronicles the development and operational history of the Navy fighter from conception to duty in the Korean War, to service as a night interceptor in Vietnam, where it was an ECM/ELINT platform, jamming North Vietnamese missile and anti-aircraft sites. Illustrated with more than 196 photos and 10 line drawings; 80 pages.

SS50229



S-3 Viking

Brad Edward

In Action

S-3 Viking In Action (HB)

Edward. The Lockheed S-3 Viking was developed in the late 1960s to serve as a dedicated carrier-based anti-submarine aircraft. It also provides an overview of some of the more significant variants that were studied, but never fully pursued, such as the Carrier On-Board Delivery (COD) and dedicated (KS) refueling variants. It also discusses the aircraft's role in Operation Desert Storm and how the lessons learned from that conflict impacted the Vikings' mission during the latter part of the 1990s and early 2000s. Illustrated with 186 photographs, line drawings, and numerous color profiles; 80 pages.

SS50230

AIRCRAFT SPECIALS

Aces & Wingmen II Volume 1 (HB)

Morris. Includes chapters covering thirteen different Fighter Squadrons, and histories of the 353rd and 354th Fighter Groups. Also lists Aces with the 355th Fighter Group.

Over 600 b/w and 31 color photos, with 56 color drawings; 256 pages.

SS0001





AIRCRAFT WALK AROUND



A-4 Skyhawk Walk Around (HB)

Drendel. The carrier-capable Douglas A-4 Skyhawk is one of the most successful modern combat aircraft. During the 25 years in which the A-4 was on the production line, 2,960 Skyhawks were built. A relatively light aircraft, with a maximum takeoff weight of 24,500 pounds and with a top speed exceeding 600 mph, the Skyhawk was operated not only by the US Navy and Marines but also by the air forces of Australia, New Zealand, Israel, Malaysia, Argentina, Singapore, Brazil, Indonesia, and Kuwait. Introduced in 1956, Skyhawks played major roles in the Vietnam War, the 1973 Arab-Israeli October War, and the Falklands/Malvinas Conflict in 1982. Navy retired the A-4 as recently as 2003. Meanwhile, the battle-tested warrior continues to serve today other militaries around the world. Illustrated with 205 photographs, color profiles, and detailed line drawings; 80 pages.

SS65041



B-29 Superfortress Walk Around (HB)

Savage. Equipped with pressurized cabins for high-altitude effectiveness, with an electronic fire-control system, and remote-controlled machine gun turrets, the B-29 Superfortress was the most advanced aircraft of WWII. Two of those planes, the Superfortresses Enola Gay and Bockscar, dropped the atomic bombs on Hiroshima and Nagasaki in 1945. Yet over all, the B-29 received less notoriety than its storied elder siblings, the B-17 and B-24, perhaps because its service areas - the China, Burma, and India Theater and the Western Pacific - were less publicized than was the war in Europe. Designed by Boeing, nearly 4,000 B-29s had been turned out by the time production ended in 1946. A unique look at the plane that ushered in the nuclear age. Illustrated with over 210 photographs; 80 pages.

SS65054



KC-135 Stratotanker Walk Around (HB)

Katz. Many air forces can conduct missions such as air superiority and ground attack, but only the US Air Force has truly global reach. For more than five decades, the essential enabler of this global reach has been the KC-135 Stratotanker. Unarmed and unglamorous, the KC-135 has been one of the most successful and enduring aircraft in US Air Force history. Primarily based on the author's extensive access to operational KC-135 aircraft on the ground and in flight, this book contains the most detailed photographic documentation of the KC-135 inside and out that has ever been published, as well as color profiles of the KC-135R in the markings of every major USAF command that has operated that variant. Illustrated with 240 photographs, detailed line drawings and color profiles; 88 pages.

SS65066



F9F Cougar Walk Around (HB)

Neubeck. The first swept-wing carrier-based fighter aircraft built for the USN, the F9F Cougar marked a major leap forward in the area of naval aircraft design from its predecessor, the straight-wing Grumman F9F Panther. The prototype of the first version of the Cougar, the F9F-6, first took to the air in September of 1951, six months after contract award. There were several different models of the Cougar. The F9F-6 was followed by the F9F-7 and F9F-8, addition there were also two reconnaissance models - the F9F-6P and the F9F-8P - as well as a two-seater trainer version, the F9F-8T. The contemporary photographs in this volume illustrate in detail the differences between the various Cougar models, making use of over a dozen display aircraft located in museums across the United States as well as one Cougar on display in Argentina. Grounded in solid historical research, the book also features historical images from the photo archives of both the U.S. Navy and Grumman, and also includes rare photos of F9F Cougar in its final days, serving as a target drone for later generations of fighters. Illustrated with over 230 photographs; 80 pages.

SS65068



B-26 Marauder Walk Around (HB)

Doyle. Exclusive photos illustrate the rarely seen inner workings and outer features of the B-26G, with additional coverage of the B-26, B-26B, and B-26C. Initially dubbed "the Widowmaker" due to its high wing loading and high landing speeds. More than 220 photographs, plus numerous detailed line drawings and color profiles.

SS65069



Heinkel He 111 Walk Around (HB)

Mackay. Although produced in large numbers and exported to many countries before and during the war, few examples survive today. This volume features detailed photographic images of the He 111P-1 restored and preserved in Norway, and the He 111H-20 on display in the RAF museum. Illustrated with 228 photos, detailed line drawings and color profiles; 88 pages.

SS65070



B-25 Mitchell Walk Around (HB)

Doyle. Soaring into the pages of history with Jimmy Doolittle's famed Tokyo Raiders, the North American B-25 Mitchell was the most-produced American medium bomber of World War II. Profusely illustrated, this volume examines the nuances of the external features and explores the inner workings. Enhancing color photographs, taken on the ground and air, 4 vintage blk/wht images, 14 line drawings. Illustrated with more than 200 photographs; 80 pages.

SS65071



AT THE GATE SERIES



Boeing 737 At The Gate (HB)

Tidwell. Few commercial aircraft have enjoyed a production run that spans more than four decades and service in nearly every nation on Earth. The Boeing 737 has such a track record. Takes the reader on a journey through the continuing story of the 737 from the first aircraft to roll off the production line in the 1960s, to the very latest airframes being delivered to major airlines today. The book also offers the reader a look at some of the most interesting 737 liveries as well as parts of the aircraft that few people get to see. Also covered are business jets, cargo carriers, and military versions of the 737 that are less familiar even to the thousands of air travelers who have flown aboard this legendary Boeing liner. Illustrated with over 220 photographs; 96 pages.

SS68002

COMBAT CHRONICLES

Combat Chronicles of the Black Widow (HB)

Thompson. Dramatic first-hand accounts by the pilots, radar observers, and gunners who saw combat aboard the first dedicated US night fighter in WWII fill this unique volume, the first in Squadron/Signal's new Combat Chronicles series that brings you action-packed, eye-witness war stories, interviews, and first-hand reminiscences from the front lines. In this volume



we hear from the crews who rode the Black Widow into battle all over the world. The outbreak of war in Europe left no room for doubt that the United States needed quickly to come up with a specialized night fighter to confront the totally new face of air combat. Northrop was able to come up with designs for a new, specially designated night fighter and a contract for what was to become the P-61 Black Widow was signed on 11 January 1941. After the first production aircraft rolled off the assembly line in October 1943, the P-61 went on to operate in the European, Pacific, China-Burma-India, and Mediterranean Theaters of the war. Experience WWII as it was seen by the men in the cockpit of this history-making radar-equipped night interceptor. Illustrated with 152 photographs; 112 pages.

SS7701

COMBAT CHRONICLES

B-29 Superfortress

Combat Chronicles (HB) Robert Hilton



Hilton. With its pressurized cabins for high-altitude operation, its long range, large bomb capacity, and turbo-supercharged engines, the B-29 Superfortress was the epitome of cutting edge American air power during WWII. The author, a photographer with the 40th Bomb Group and a veteran of 83 Superfortress missions, offers a first-hand, eye-witness account and shares his experiences on reconnaissance and bombing missions, flying the 'Hump' and taking off from an advanced base in Sichuan, China, to pummel Japanese occupation forces throughout Asia. Then in early 1945, the 40th BG moved to newly-liberated Tinian from which they took part in the final chapter of WWII - the aerial assault on the Japanese home islands. Introduces you to fellow veterans of the 40th who relate their no-less extraordinary experiences - ditching in the Bay of Bengal, lost in the Siberian Taiga, downed behind enemy lines in China, taken prisoner after bailing out over Tokyo. Personal accounts from the men who served on the front lines of the air war in the Pacific, a unique primary historical source and a truly exciting read. Illustrated with over 100 photographs; 120 pages.

SS76002

Aeroscouts in Vietnam Combat Chronicles (HB)

Mutza. During the late 1950s and early 1960s, U.S. Army planners sought to increase the Army's helicopter force. The Army developed new tactical doctrine using helicopters - the airmobile concept - which was based largely on air cavalry units. Such units were descendants of the US Cavalry, which had operated as light, horse-mounted infantry.

Air cavalry troopers were, in essence, horse soldiers, and helicopters were their steed. True to their proud and colorful heritage, the Air Cavalry not only employed tactics used by their forefathers of the Indian wars, they embraced their culture as they deployed in the grueling conflict in Indochina. Packed with more than 30 action packed, often hair raising first-hand accounts of helicopter scout combat in Vietnam, this latest addition takes you into the thick of the action. Besides being exciting reading, these personal recollections by dozens of the fighters themselves provide invaluable, primary source historical coverage of one of America's epic conflicts as experienced by frontline helicopter scouts. Illustrated with over 160 photographs; 136 pages.

SS76003

ARMOR IN ACTION

German Armored Cars

In Action David Doyle



German Armored Cars in Action (HB)

Doyle. Germany began developing its heavy armored cars well before the outbreak of World War II. Germany's early six-wheel armored cars were based on 6x4 truck chassis, and their off-road mobility was limited. These vehicles soon gave way to an expanding series of eight-wheel drive/eight-wheel steer vehicles fitted with a variety of armament. In time these too were supplanted by even larger armored cars incorporating refinements based on lessons learned from the vehicles' field experience, such as heavier armor, armament, and an air-cooled engine. Packed with more than 220 period photographs, this book chronicles the development and deployment of Germany's six and eight-wheeled armored cars before and during WWII; 80 pages.

SS52050

M151 MUTT

In Action David Doyle



M151 MUTT in Action (HB)

Doyle. The M151 was intended to be a lightweight, high-mobility replacement for the M38A1, itself a successor to the famed World War II jeep. Dubbed the Military Utility Tactical Truck or "MUTT" by the military - GIs almost universally referred to the vehicle as a "jeep." The series' service life spanned more than 40 years and four manufacturers, and the vehicles saw service everywhere the US GI was deployed. This volume chronicles the development and field use of the M151 series in Europe, the Middle East and, of course, there is extensive coverage of the vehicles' service in Vietnam. The photos, many previously unpublished, are augmented by seven line drawings. Illustrated with 220 photographs; 80 pages.

SS52051

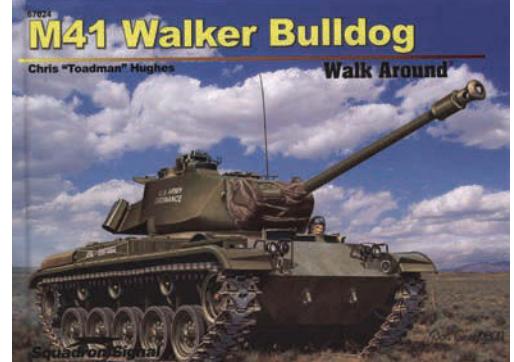


ARMOR WALK AROUND



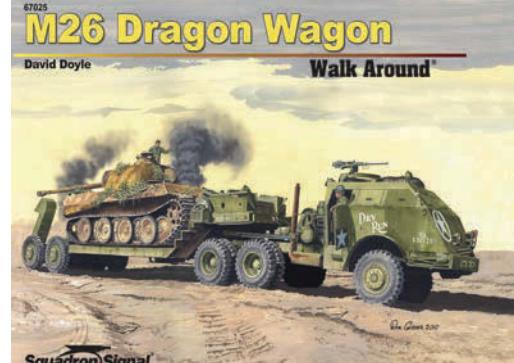
FT-17 / M1917 WWI Tanks Walk Around (HB) Doyle. This volume presents a careful study of the details and variations of this innovative vehicle, inside and out. Two-hundred thirty-seven photographs reveal the intimacies of no fewer than 14 of the finest surviving examples of these machines, preserved on three different continents. Nine detailed line drawings supplement the photos and comprehensive captions; 80 pages.

SS67023



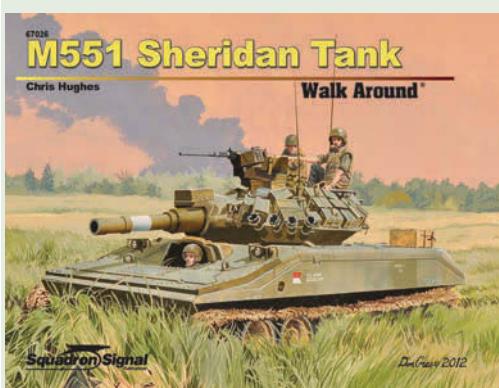
M41 Walker Bulldog Walk Around (HB) Hughes. The standard US light tank during the early years of the Cold War, the M41 Bulldog was developed as a more powerful successor to the M24 Chaffee. Illustrated with 250 photographs plus color profiles and numerous detailed line drawings; 80 pages.

SS67024



M26 Dragon Wagon Walk Around (HB) Doyle. This volume examines armored and soft-skin versions of this massive vehicle, and its trailers, through hundreds of color photos and some of the finest restored examples in existence. Illustrated with over 230 photographs; 80 pages.

SS67025



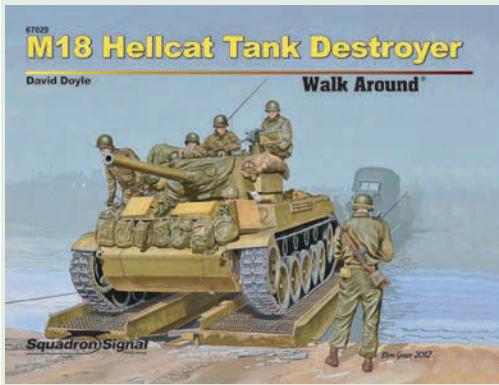
M551 Sheridan Walk Around (HB) Hughes. First deployed in combat in Vietnam, the M551 Sheridan is the first US tank to be fully amphibious and also airborne capable. Photos of the sub-variants of the M551 Sheridan, such as the 'Product Improvement Program,' A1, and VISMODs round out this profile of the versatile historic tank. Illustrated by more than 240 photographs plus eight detailed line drawings; 80 pages.

SS67026



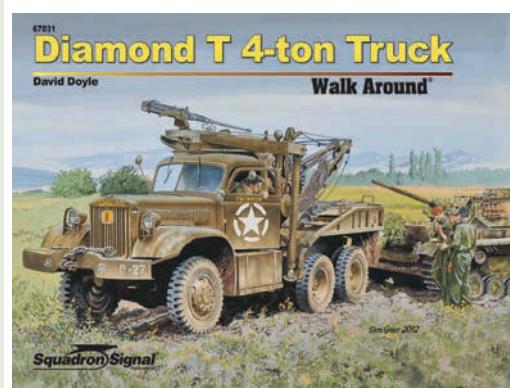
Jagdpanzer 38 Hetzer Walk Around (HB) Stapfer. Pictures of Jagdpanzer 38 vehicles in Bulgarian and Swiss service appear here for the first time, and the SK-23 steam-powered recovery vehicle based on the Hetzer is also documented along with extensive coverage of the G 13, including the first-ever color photographs of that variant's interior. Illustrated with over 200 photographs, plus detailed line drawings, and color profiles; 80 pages.

SS67027



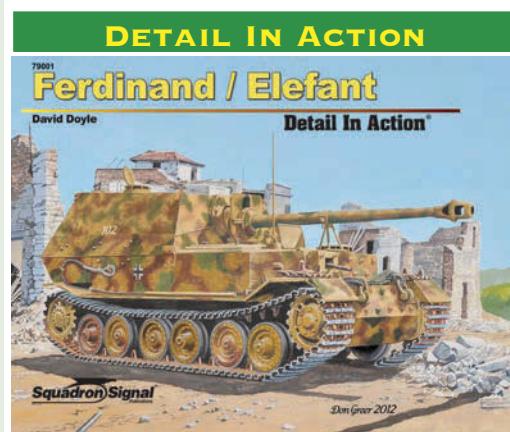
M18 Hellcat Tank Destroyer Walk Around (HB) Doyle. Engine and drive train, driver's compartment, weapons and sighting systems, and stowage - both interior and exterior - are all carefully presented. Illustrated with 230 color photographs, 5 black and white photographs, 5 line drawings, and 4 profiles; 80 pages.

SS67029



Diamond T 4-ton Truck Walk Around (HB) Doyle. As it became increasingly apparent that the United States could not avoid getting involved in World War II, the US Army stepped up its efforts at modernization and industrial mobilization. Toward this end, the Quartermaster Corps ordered a series of 4-ton 6x6 trucks from Chicago-based Diamond T Motor Car Company. The chassis of the artillery prime mover was adapted for use a dump truck, a long-wheelbase truck to transport bridging equipment, and what would become the US Army's standard medium wrecker during WWII. The design of the Diamond T was so successful that it is widely recognized as the forerunner of the Army's post-WWII M-series trucks, which were utilized for 50 years. For this book, the finest preserved examples of the classic Diamond T were sought out and extensively photographed, resulting in a volume packed with color photographs augmented by five period black-and-white photos. Illustrated with 232 photographs; 80 pages.

SS67031



Ferdinand / Elefant Detail in Action (HB) Doyle. In an effort to turn the proverbial lemon, in the form of an unsuccessful Tiger design, into lemonade, Porsche engineers at the behest of the German army, converted the failed chassis into one of the largest and most potent tank destroyer designs of World War II. Initially fielded as the Ferdinand, the vehicles were further modified, and ultimately given a new - and apt - name: 'Elefant.' This new volume explores not only the combat history of both the Ferdinand and Elefant, but also chronicles the development of the ill-fated Porsche Tiger design through 88 period black-and-white photos. Further enhancing its utility to the enthusiast, 110 full-color photos of the only surviving examples of each type illustrate the nuances of the construction and subsequent wartime modification of these giant tank killers. Also features 16 detailed line drawings as well as 15 masterful color profiles; 80 pages.

SS79001



SQUADRON AT SEA

USS Arizona

David Doyle

Squadron At Sea



Squadron Signal

USS Arizona Squadron at Sea Series (HB)

Doyle. Packed with rare photographs unearthed from sources throughout the country, this volume follows the history of one of America's most iconic naval vessels. Glimpse the life of the crews that manned her and follow her through the maintenance and refits that dramatically changed her appearance. Describes the horrific explosion that ripped through her hull on the dark morning of 7 December 1941, and a series of unique photos document the years of wartime salvage work aboard the sunken battleship. Chronicled too is Arizona's ongoing service as a tomb and memorial to the 1,177 men who perished with her. A testament to the Arizona and her men brought to you as you've never seen them before. Illustrated with 288 photographs, 5 detailed line drawings, 7 color illustrations; 120 pages.

SS74001

USS North Carolina

David Doyle

Squadron At Sea



USS North Carolina Squadron at Sea (HB)

Doyle. Laid down in 1937 and launched on 9 April 1941, the USS North Carolina was the first new construction battleship to enter service during WWII and took part in every major naval offensive in the Pacific Theater, becoming the most decorated US battleship of WWII. This volume traces the history of the North Carolina, photographically documenting the evolution of armament and electronics that elevated her pre-Pearl Harbor design to its peak - bristling with guns to counter the threat of kamikaze attack. Records not only the ship's wartime operations that earned her 12 battlestars, but also her crew and their work and recreation. Generously illustrated with more than 330 photographs - many of them color, detailed line drawings and 11 color profiles that document the various camouflage schemes worn by both the ship and her scouting aircraft.; 136 pages.

SS74002

SQUADRON AT SEA

USS Texas

David Doyle

Squadron At Sea



Squadron Signal

Steve Ginter 2012

USS Texas Squadron At Sea (HB)

Doyle. Armed with 10 14-inch guns and displacing 32,000 tons, the battleship is still a formidable sight as she enters into her second century. This expansive volume tells the tale of the Texas and her crew. Loaded with black-and-white and color photos not only showcase the construction, numerous voyages, modifications, combat action, and ultimate preservation of the ship, but also show the vessel as a home, office, and workshop for the men who served as her crew. These historic images are augmented with five line drawings illustrating her key configurations, as well as nine color profiles depicting her aircraft, as well as the many camouflage schemes she wore. Illustrated with over 350 photographs; 152 pages.

SS74003

USS Saratoga

David Doyle

Squadron At Sea



Squadron Signal

USS Saratoga Squadron at Sea (HB)

Doyle. When commissioned in 1927, Saratoga's decks teemed with fabric-covered biplanes, and the ship and her crew projected US military power far beyond the nation's shores. So impressive was Saratoga that she and her crew served as a backdrop for two major Hollywood motion pictures. In 1941 she was called to do what she was built for, and for the next four years plied the Pacific, her biplanes replaced by the famed Wildcats, Hellcats, Dauntlesses and Avengers that prosecuted the war against Japan. Having survived two torpedo hits by Japanese subs, as well as repeated bomb and Kamikaze strikes, at war's end she took part in the huge Magic Carpet operation that transported thousands of US servicemen back to the mainland. Still afloat after the first nuclear explosion, she was sent to the bottom of Bikini Atoll by the second of the blasts, and still rests there today, where she welcomes the occasional scuba diver. Profusely illustrated with 383 color and b/w photos capturing the ship, her crew and aircraft supplemented by 11 line drawings and 25 color renderings; 160 pages.

SS74004

ON DECK SERIES

Higgins PT Boat

David Doyle

On Deck



Squadron Signal

Chris Ginter 2012

Higgins PT Boat On Deck (HB)

Doyle. This illustrated volume showcases details of Higgins PTs preserved in Massachusetts, Texas, even an operational example in Oregon - the sole operational WWII PT. More than 80 color photographs, these preserved vessels are augmented by nearly 40 vintage photos illustrating rarely seen fine details of the wooden shipbuilders' craft. Illustrated with over 120 photographs; 80 pages.

SS66008

USS Kidd

David Doyle

On Deck



Squadron Signal

USS Kidd On Deck (HB)

Doyle. Documented in color close-up photos are the details of the exterior of the ship, as well as her interior spaces, where destroyer sailors lived, fought, and some died, painstakingly restored and preserved today in Baton Rouge by the Louisiana Naval War Memorial Commission. Illustrated with 234 photographs; 80 pages.

SS66010

USS Massachusetts

David Doyle

On Deck



Squadron Signal

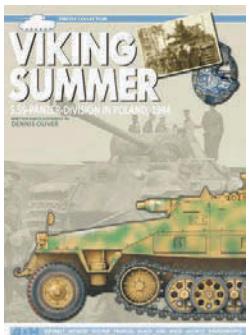
USS Massachusetts On Deck (HB)

Doyle. This book documents the warship through an impressive collection of images and data tables revealing the ship the ship and how it functioned as a fighting machine as well as a home to her almost 1,800-man crew. Illustrated with 286 photographs, and color profiles; 96 pages.

SS66011

OLIVER PUBLISHING

**Viking Summer:
5.SS-Panzer-Division in Poland**



Our first title, Viking Summer: 5.SS-Panzer-Division in Poland, 1944, includes:
A general history of the period and detailed accounts of the Kovel and Warsaw battles. 13 pages of colour artwork by Dennis Oliver depicting over 40 different vehicles including Sdkfz 251

half-tracks, Pzkf IV and Pzkf V Panther tanks and others. Many never before published black and white photographs. Detailed tables showing vehicle types and allocations. Comprehensive explanation of vehicle markings and numbering systems.

ADH027

**STUG:
Assault Gun Units In The East**



The second title in this series, STUG: Assault Gun Units In The East, Bagration To Berlin, is the first volume in a two part set and includes:

Histories of the German Army's assault gun units, volume two will contain Waffen SS, Luftwaffe and obscure units. Colour artwork by Dennis

Oliver depicting over 40 different vehicles with details of unit markings and insignia. Explanation of vehicle characteristics and production and field modifications. Campaign maps and diagrams

ADH028

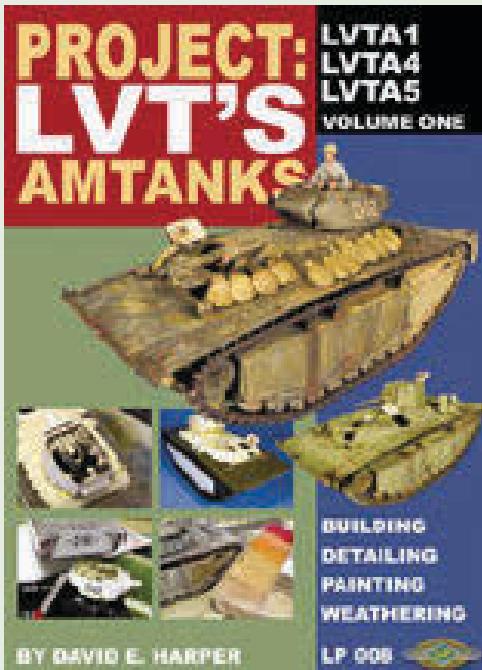
**Fortress: German Armour In
The Defence Of Sicily**



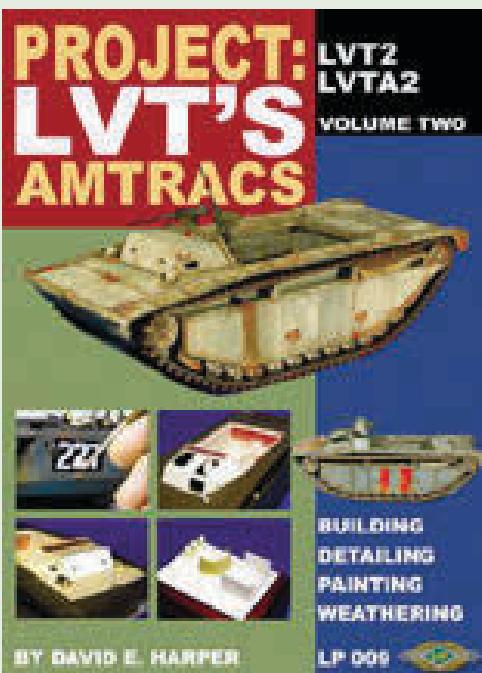
A detailed history of the units involved and their actions in Sicily by well known author and researcher Claude Gillon 13 pages of colour artwork by Dennis Oliver depicting over 30 different vehicles and guns including half-tracks, assault guns, Pzkf III, Pzkf IV, Pzkf VI Tiger

tanks and the deadly 88mm Flak gun. Black and white archive photographs, many never before reproduced. Campaign map. Detailed tables showing vehicle types and allocations. Illustrations of unit insignia and vehicle markings.

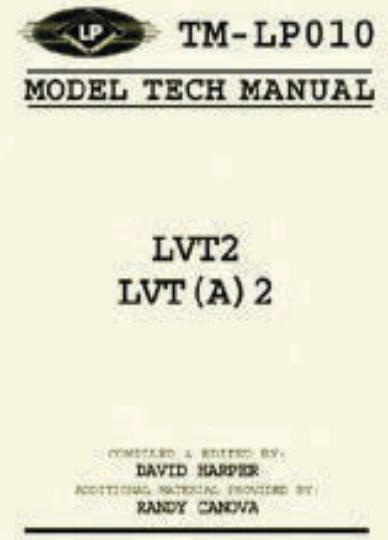
ADH029



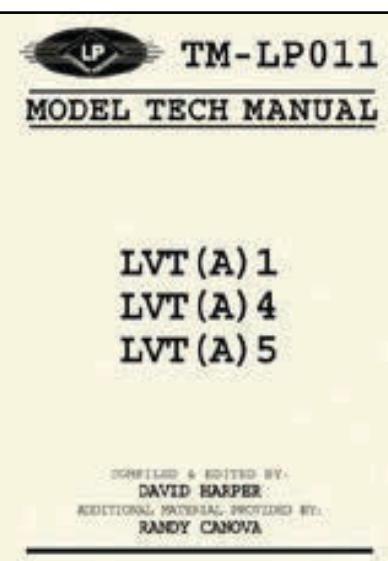
Project LTVs Amtanks: LVTA1, LVT(A)4, LVT(A)5 (SC) Information from factory blueprints, tech manuals and bulletins, photos, personal narratives and existing vehicles. Tips on building, detailing and weathering are provided throughout. Figure sculpting and painting pointers provided by Bill Chilstrom.
LPP008



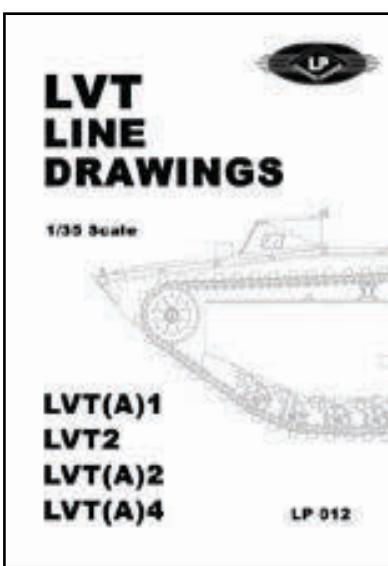
Project LTVs Amtracks: LVT2 and LVT(A)2 (SC) Models, photos and layout with tips on building, detailing, painting and weathering.
LPP009



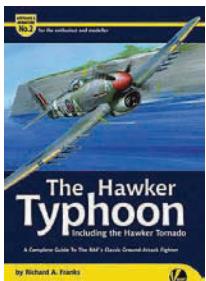
**Model Tech Manual LVT2 and LVT(A)2 (SC)
LPP010**



**Model Tech Manual LVT(A)1, LVT(A)4, LVT(A)5 (SC)
LPP011**



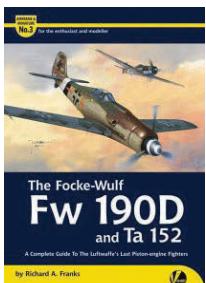
**LVT Line Drawings: LVTA1, LVT2, LVTA2, LVTA4 (SC)
LPP012**



Airframe & Miniature No 2: The Hawker Typhoon inc. The Hawker Tornado
by Richard A. Franks.
128 pages packed with vital information that no active aviation modeller should be without.

- 40+ pages of technical information
- 20+ pages of walkaround images and technical diagrams
- 5+ pages of camouflage and markings
- 25+ pages of model builds and modelling information
- 200+ photographs including wartime images
- Colour side views and four-views by Richard Caruana
- 3D isometric views of all variants by Jacek Jackiewicz
- 1/72, 1/48 and 1/32 scale full kit builds
- A full set of fold-out 1/48 scale plans

ADH015

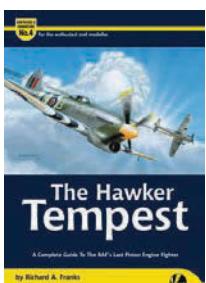


**Airframe & Miniature No.3
The Focke-Wulf Fw 190D and Ta 152**

by Richard A. Franks.
160 pages packed with vital information that no active aviation modeller should be without.

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- 20+ pages of walkaround images and technical diagrams
- 5+ pages of camouflage and markings
- 20+ pages of model builds and modelling information
- 200+ photographs including wartime images
- Colour side views and four-views by Richard Caruana
- 3D isometric views of all variants by Jacek Jackiewicz
- 1/72, 1/48 and 1/32 scale full kit builds
- A full set of fold-out 1/48 scale plans

ADH017

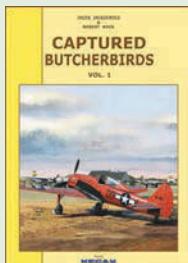


Airframe & Miniature No 4: The Hawker Tempest

This fourth book in our much acclaimed series contains a massive 128 pages packed with vital information that no active modeller and Tempest enthusiast should be without.

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- Over 20 pages of walkaround images and technical diagrams
- Over 5 pages of camouflage and markings
- Over 25 pages of model builds and modelling information
- Over 200 photographs including wartime images
- Colour side views and four-views by Richard Caruana
- 3D isometric views of all variants by Jacek Jackiewicz
- 1/72 and 1/48 scale full kit builds by Libor Jekl and Steve Evans
- A full set of fold-out 1/48 scale plans is included

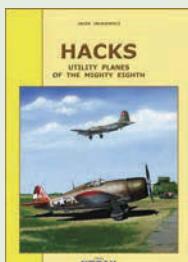
ADH026



Captured Butcherbirds Vol. 1

J.Jackiewicz & R.Bock
English text, soft cover, 128 pages, 329 photos, 28 multi-views painting schemes and 127 side profiles. Entire book is published in colour

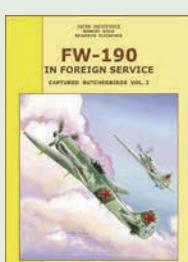
ADH021



Hacks Utility Planes of the Mighty Eighth

J. Jackiewicz
Continuation and sequel for the 'Assembly Ships'. English text, soft cover, 132 pages, 267 photos, 195 colour profiles. Entire book is published in colour.

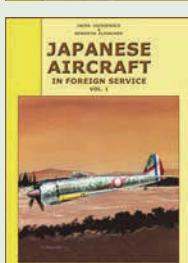
ADH022



FW-190 In Foreign Service (Captured Butcherbirds Vol. 2)

J.Jackiewicz, S.Fleischer, R.Bock
English text, soft cover, 100 pages, 215 photos, 112 side profiles. Entire book is published in colour.

ADH023



Japanese Aircraft in Foreign Service

J.Jackiewicz & S.Fleischer
English text, soft cover, 128 pages, over 300 photos, 187 side profiles and colour plates. Entire book is published in colour.

ADH024

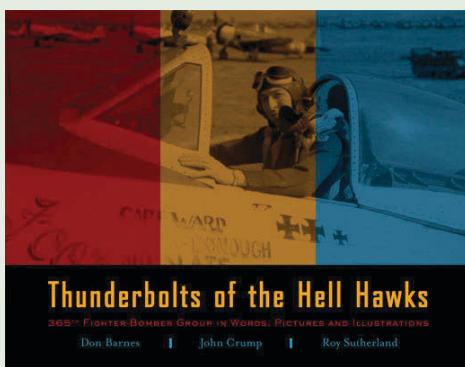
The Messerschmitt Me 262



Airframe & Miniature Series: Under the expert guidance of series editor Richard Franks, this exhaustively researched book covering the popular Messerschmitt Me 262 for the avid enthusiast. 116 pages of technical information, full colour profiles, walkaround images, diagrams, camouflage and marking details, a wealth of photographic resource plus comprehensive model builds and information on kits both past and present. Every active aviation modeller should have this series by their workbench. This is the first in the series, The Messerschmitt Me 262 by Richard Franks, available now. By Richard A. Franks

- 116 pages packed with vital information that no active modeller of aviation subjects should be without
- Over 40 pages of technical information
- Over 10 pages of full colour profiles
- Over 20 pages of walkaround images and technical diagrams
- Over 5 pages of camouflage and markings
- Over 25 pages of model builds and modelling information
- Over 200 photographs including wartime images
- Colour side views and four-views by Richard Caruana
- 3D isometric views of all variants by Jacek Jakiewicz
- 1/72, 1/48 and 1/32 scale full kit builds by Steve Evans and Richard Franks

ADH013



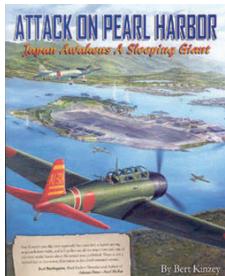
Thunderbolts of the Hell Hawks

By Don Barnes, John Crump & Roy Sutherland
Ninth Air Force P-47 units have been long overlooked, despite their significant contribution to victory in WWII. Their war was close to the ground, dive-bombing and strafing in support of the US Army at the Normandy landings, and in the race across France, Belgium and Germany. "Thunderbolts of the Hell Hawks" is a new book offering a personal view of one of the most decorated and effective P-47 units in the Ninth Air Force. This rich visual account of the 365th Fighter-Bomber Group, the "Hell Hawks", is presented in 320 pages with over 500 photos, most published for the first time. The book also features 98

thoroughly researched and detailed colour profiles of their Thunderbolts, illustrated by Don Barnes. All but three of the aircraft profiled have languished in obscurity for the past 65 years, brought to light for the first time here. Published with full cooperation of the 365th FG Association, and with the kind help of the men and families who shared memories and personal photo albums, this book is a testament to their strength, courage and sacrifice helping bring an end to the war in Europe. Don Barnes, John Crump and Roy Sutherland interviewed and befriended over 20 surviving pilots from the 365th FG. Maps, charts and photos of surviving artifacts illustrate the very detailed, almost day-to-day record of the Hell Hawks' missions. Additionally, more than 100 sidebars, many written by the men of the 365th, themselves, give life and humanity to the story. This unique book offers an extraordinarily personal and illustrative portrait of the lives of P-47 pilots.

Inspired by the excellent book "Hell Hawks" by Bob Dorr and Tom Jones, this book is a companion piece, providing much additional information and a rich visual picture of the 365th during the last year of the war in Europe.

ADH025

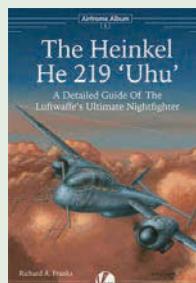


Attack on Pearl Harbor

Covering all of the major aspects of the Japanese attack on Pearl Harbor, this book is written so that it will appeal to both the layman, seeking an understanding of what happened on the "Day of Infamy," and to the enthusiast who wishes to learn much more information than is usually found in a book of this size. Photos with detailed captions, extensive artwork, charts, tables, maps, and text combine to make this a comprehensive yet very affordable reference on one of the most important dates in world history. By Bert Kinzey.

- More than 145 Photographs
- 46 Art Illustrations
- 6 Maps
- 8 Tables
- Illustrations showing all types of Japanese aircraft used in the attack with markings applied to the aircraft flown by many of the group commanders and other pilots
- Illustrations of American Army and Navy aircraft that were in the air over Oahu during the attack including those flown by pilots who shot down Japanese aircraft
- Information and data on each of the six aircraft carriers used by the Japanese as well as illustrations of the markings carried by their aircraft
- Complete information on the composition of both attack waves including numbers and types of aircraft flown, armament carried, carrier assignments, unit assignments, targets assigned, and the names of group leaders
- Maps showing the routes of the attack waves and how the torpedo, dive bombing, and horizontal bombing attacks were carried out in the Pearl Harbor area
- List and map of American ships present in or near Pearl Harbor during the attack
- Table of ships of the Pacific Fleet not at Pearl Harbor during the attack and indicating their locations
- Official U. S. Navy damage report and information as to when all but three of the sunk and damaged ships were returned to action with the fleet
- Photographs showing the ships listed on the Navy damage report before, during, and after the attack
- Japanese mistakes and the eventual fates of each of the Japanese ships that took part in the attack
- A look at the Special Attack Unit of five midget submarines and the U. S. Navy ships that engaged them

ADH014



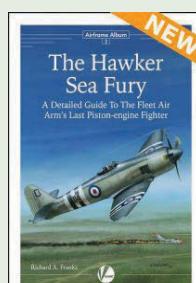
Airframe Album No 1: The Heinkel He 219 Uhu

This new series of books will offer everything that modern modellers want when they are tackling a specific subject and will include:

- Period diagrams
- Data from flight manuals
- Data from spare parts catalogues
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- Fully detailed 3D isometric views of prototype and production machines
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- Pictures before, during and after restoration
- Isometric views by Jacek Jackiewicz
- Colour profiles and camouflage detail by Richard J. Caruana
- 100 pages in total

Publication well in advance of the Revell and Zoukei-Mura 1/32 scale kit releases.
by Richard A. Franks

ADH030



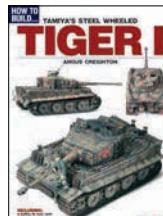
Airframe Album No.2: The Hawker Sea Fury A Detailed Guide to The Fleet Air Arm's Last Piston-engine Fighter

by Richard A. Franks

Our second title in the Airframe Album series will cover the Hawker Sea Fury, and follows on neatly from our Airframe and Miniature titles on The Hawker Typhoon and recently published Hawker Tempest.

- Period diagrams
- Data from flight manuals and spare parts catalogue
- Walkaround images of preserved examples
- Pictures before and during restoration of the restored TFC and airworthy FAA examples
- Fully detailed 3D isometric views of prototype and production machines by Jacek Jackiewicz
- Colour profiles and concise camouflage detail by Richard Caruana
- 100 pages
- An overview of all Hawker Sea Fury kits available in 1/32, 1/48 and 1/72 scales

ADH031

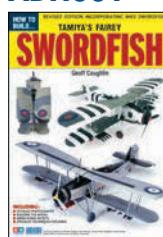


How to build the Tamiya Steel Wheeled Tiger I

The Tiger I is one of the most popular modelling subjects in 1:35 scale. In this book, world-renowned modeller Angus Creighton concentrates on the Steel Wheeled version of the famous German WW2 Tank. With five

versions of the Tiger portrayed in great detail, particular attention is paid to subtle production differences, as well as focusing on the rare command version and Borgward BIV control vehicle. With step-by-step guides covering and painting, applying zimmerit and adding markings.

ADH001



How to build the Tamiya Fairey Swordfish

A full colour, high quality guide describing in great detail the building, detailing and painting of Tamiya's stunning 1:48 Fairey Swordfish. Inside you'll find over fifty pages of clear, easy to follow photographs of the model being constructed plus shots of the real thing. TMMI's Geoff Coughlin has built two complete models, one in grey with wings extended and a camouflaged machine with wings folded back for carrier stowage.

ADH002



How to build the Tamiya Bristol Beaufighter

The 60 page book includes information on:

- Building the basic model;
- The six detailed versions of the Beaufighter;
- Details of production variations;
- Weathering;
- and many other handy hints and tips!

ADH003



How to build the Tamiya Spitfire Mk.IXc and Mk.VIII

Revised edition with extra pages covering the Spitfire Mk.VIII. The complete guide to building Tamiya's amazing 1:32 Spitfire Mk.IXc written by Brett Green. The book now features 4 models, by Brett and Marcus Nicholls, Roy Sutherland and now Chris Wauchop. Hundreds of images, reference photos and how to get the very best from the model. Also features lists of after market parts...

ADH011



How to build the Tamiya P-51D Mustang

The complete guide to building Tamiya's amazing 1:32 P-51D written by Brett Green.

Exhaustive step-by-step guide to construction plus models, by Brett, Mark Glidden and Roy Sutherland. Hundreds of images, reference photos and how to get the very best from your model. Also features lists of after market parts and decals.

ADH016